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JVC

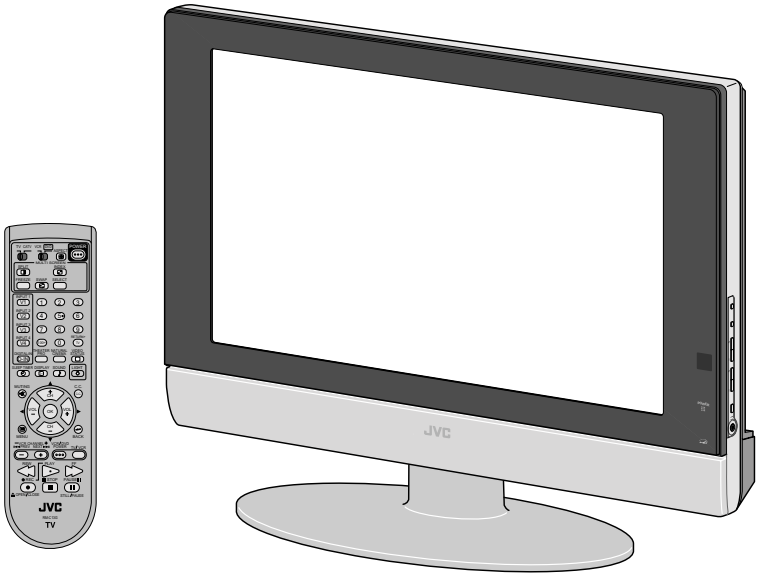
SCHEMATIC DIAGRAMS

LCD FLAT TELEVISION

LT-32WX84 /HA

CD-ROM No.SML200402

BASIC CHASSIS
SB5



I'Art™ Palette

D.I.S.T. Digital Image Scaling Technology

BBE

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No.YA004
2004/2

LT-32WX84/HA

STANDARD CIRCUIT DIAGRAM

■ NOTE ON USING CIRCUIT DIAGRAMS

1.SAFETY

The components identified by the ⚠ symbol and shading are critical for safety. For continued safety replace safety ciritical components only with manufactures recommended parts.

2.SPECIFIED VOLTAGE AND WAVEFORM VALUES

The voltage and waveform values have been measured under the following conditions.

(1)Input signal	: Colour bar signal
(2)Setting positions of each knob/button and variable resistor	: Original setting position when shipped
(3)Internal resistance of tester	: DC 20kΩ /V
(4)Oscilloscope sweeping time	: H ⇒ 20μs / div
	: V ⇒ 5ms / div
	: Othters ⇒ Sweeping time is specified
(5)Voltage values	: All DC voltage values

∗ Since the voltage values of signal circuit vary to some extent according to adjustments, use them as reference values.

3.INDICATION OF PARTS SYMBOL [EXAMPLE]

● In the PW board : R1209 → R209

4.INDICATIONS ON THE CIRCUIT DIAGRAM

(1)Resistors

● Resistance value

No unit	: [Ω]
K	: [kΩ]
M	: [MΩ]

● Rated allowable power

No indication	: 1/16 [W]
Others	: As specified

● Type

No indication	: Carbon resistor
OMR	: Oxide metal film resistor
MFR	: Metal film resistor
MPR	: Metal plate resistor
UNFR	: Uninflammable resistor
FR	: Fusible resistor

∗ Composition resistor 1/2 [W] is specified as 1/2S or Comp.

(2)Capacitors

● Capacitance value

1 or higher	: [pF]
less than 1	: [μF]

● Withstand voltage

No indication	: DC50[V]
Others	: DC withstand voltage [V]
AC indicated	: AC withstand voltage [V]

∗ Electrolytic Capacitors

47/50[Example]: Capacitance value [μF]/withstand voltage[V]

● Type

No indication	: Ceramic capacitor
MM	: Metalized mylar capacitor
PP	: Polypropylene capacitor
MPP	: Metalized polypropylene capacitor
MF	: Metalized film capacitor
TF	: Thin film capacitor
BP	: Bipolar electrolytic capacitor
TAN	: Tantalum capacitor

(3)Coils

No unit	: [μH]
Others	: As specified

(4)Power Supply

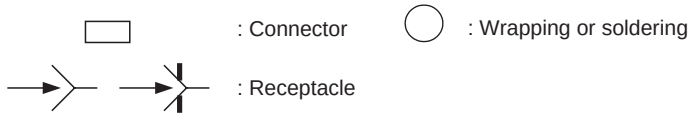


∗ Respective voltage values are indicated

(5)Test point



(6)Connecting method



(7)Ground symbol

: LIVE side ground
: ISOLATED(NEUTRAL) side ground
: EARTH ground
: DIGITAL ground

5.NOTE FOR REPAIRING SERVICE

This model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : (⊥) side GND and the ISOLATED(NEUTRAL) : (⏚) side GND. Therefore, care must be taken for the following points.

(1)Do not touch the LIVE side GND or the LIVE side GND and the ISOLATED(NEUTRAL) side GND simultaneously. if the above caution is not respected, an electric shock may be caused. Therefore, make sure that the power cord is surely removed from the receptacle when, for example, the chassis is pulled out.

(2)Do not short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or never measure with a measuring apparatus measure with a measuring apparatus (oscilloscope, etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND at the same time. If the above precaution is not respected, a fuse or any parts will be broken.

◆ **Since the circuit diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.**

NOTE

◆ **Due improvement in performance, some part numbers show in the circuit diagram may not agree with those indicated in the part list.**
When ordering parts, please use the numbers that appear in the Parts List.

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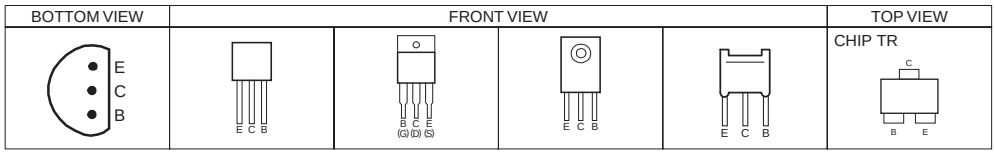
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USING P.W. BOARD

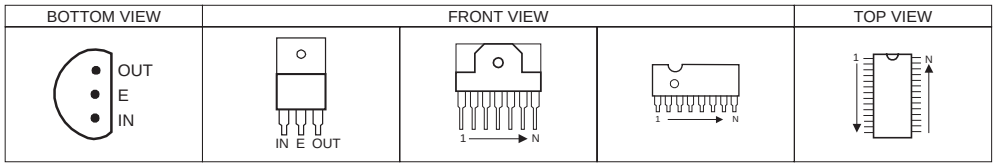
PWB ASS'Y name	PWB ASS'Y No.
RECEIVER P.W. BOARD	LCA90182-01B(SSB-0J086A)
VIDEO P.W. BOARD	LCA90152-03C(SSB-1086A)
POWER P.W. BOARD	LCA90149-07F(SSB-9091A)
REGULATOR P.W. BOARD	LCA90150-07D(SSB-9191A)
FRONT SENSOR P.W. BOARD	LCA90155-03B(SSB-0L286A)
FRONT CONTROL P.W. BOARD	LCA90154-03D(SSB-0L386A)

SEMICONDUCTOR SHAPES

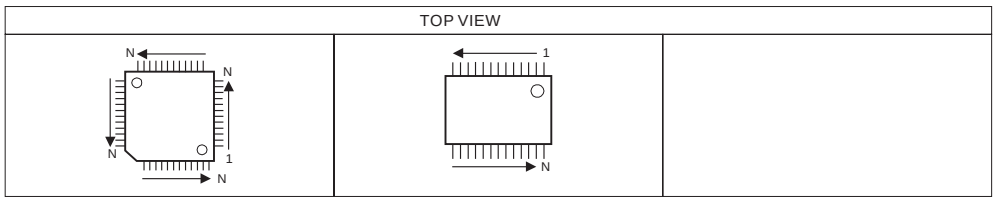
TRANSISTOR



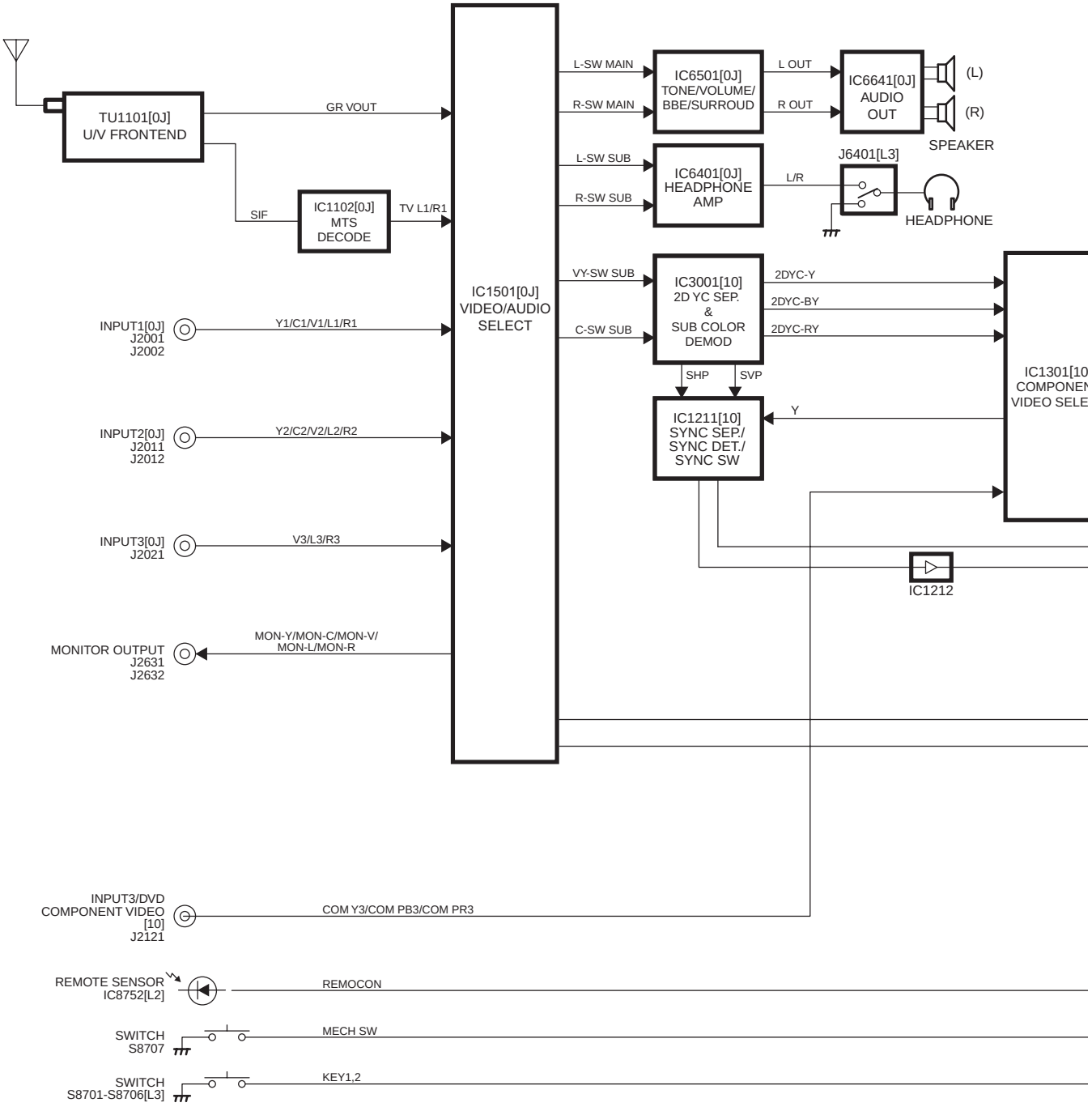
IC

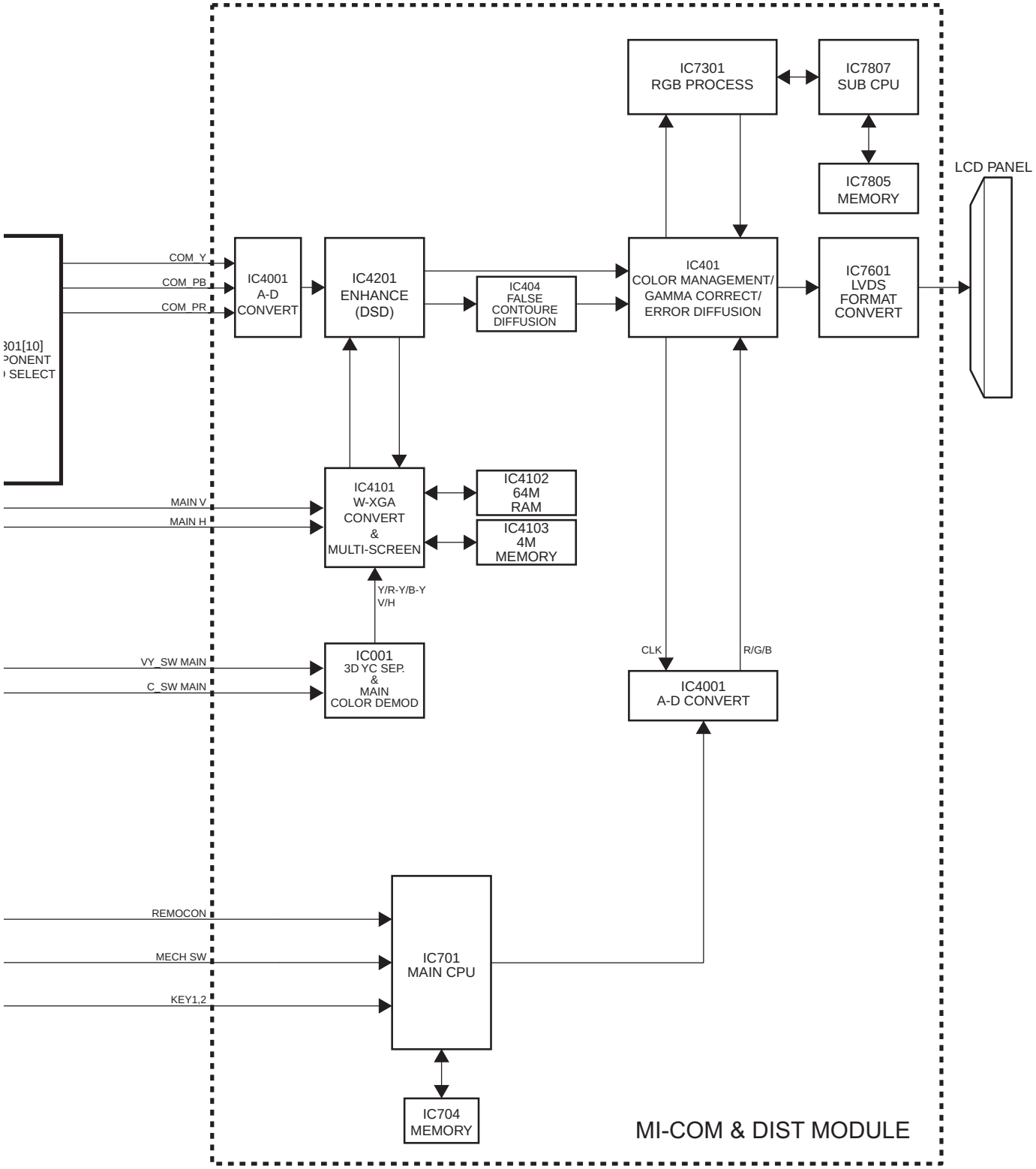


CHIP IC



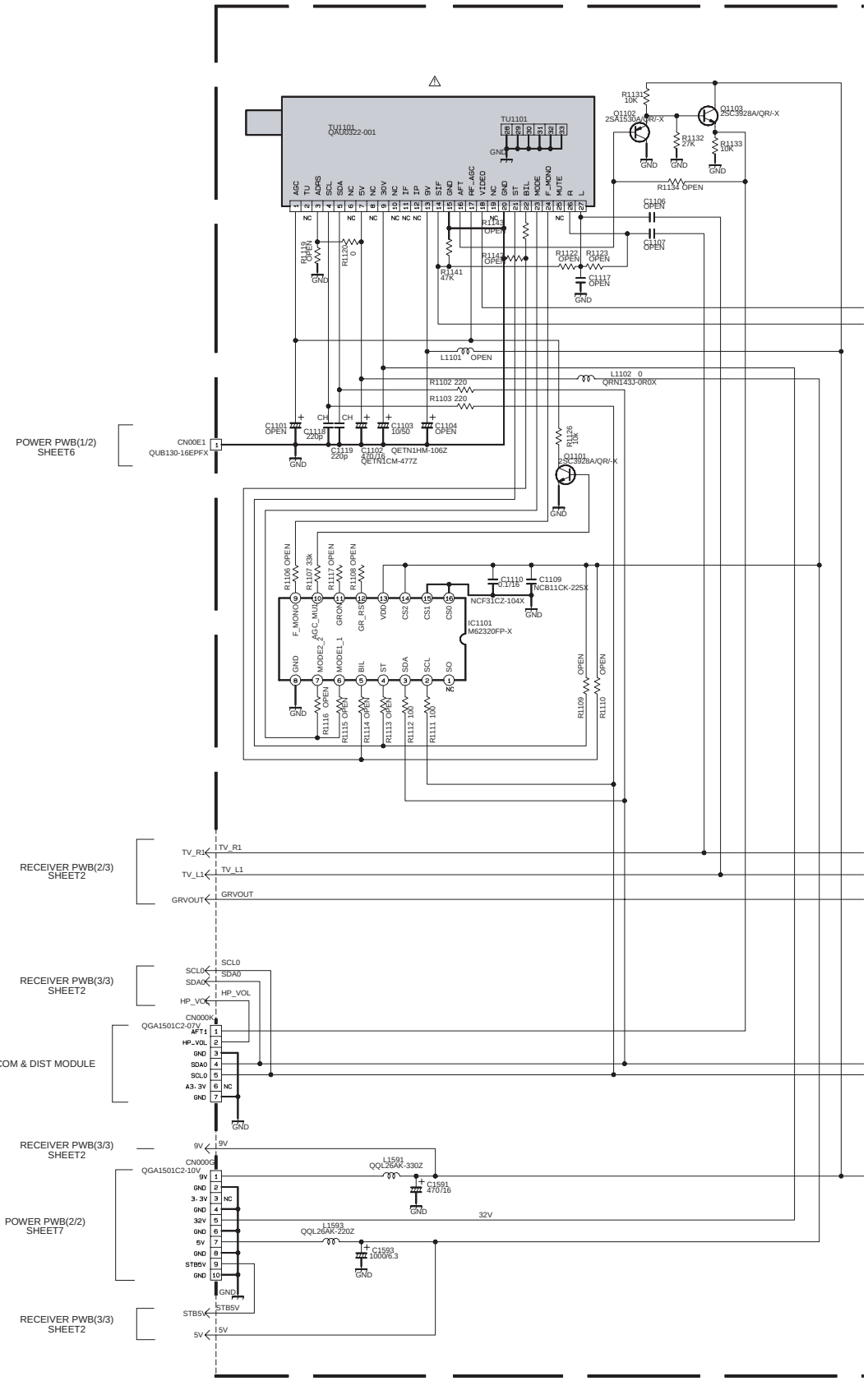
BLOCK DIAGRAM

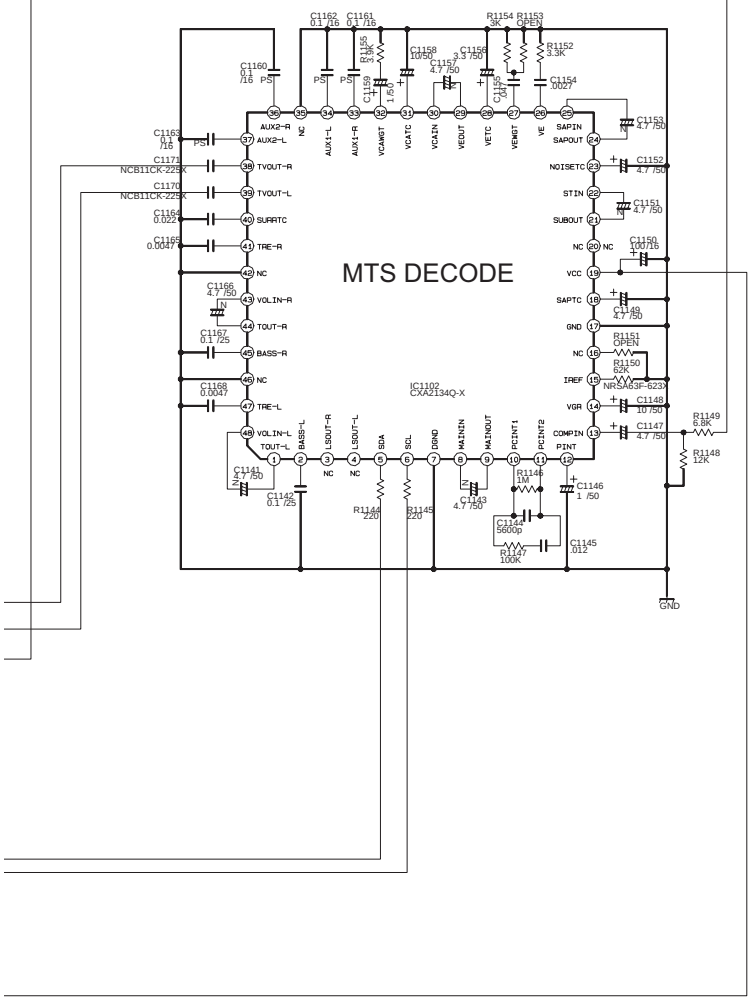



IC7301
RGB PROCESS
IC7807
SUB CPU
IC7805
MEMORY
LCD PANEL
COM_Y
COM_PB
COM_PR
IC4001
A-D
CONVERT
IC4201
ENHANCE
(DSD)
IC404
FALSE
CONTOURE
DIFFUSION
IC401
COLOR MANAGEMENT/
GAMMA CORRECT/
ERROR DIFFUSION
IC7601
LVDS
FORMAT
CONVERT
IC4101
W-XGA
CONVERT
&
MULTI-SCREEN
IC4102
64M
RAM
IC4103
4M
MEMORY
MAIN V
MAIN H
Y/R-Y/B-Y
V/H
IC001
3D YC SEP.
&
MAIN
COLOR DEMOD
VY_SW MAIN
C_SW MAIN
CLK
R/G/B
IC4001
A-D CONVERT
REMOCON
MECH SW
KEY1,2
IC701
MAIN CPU
IC704
MEMORY
MI-COM & DIST MODULE

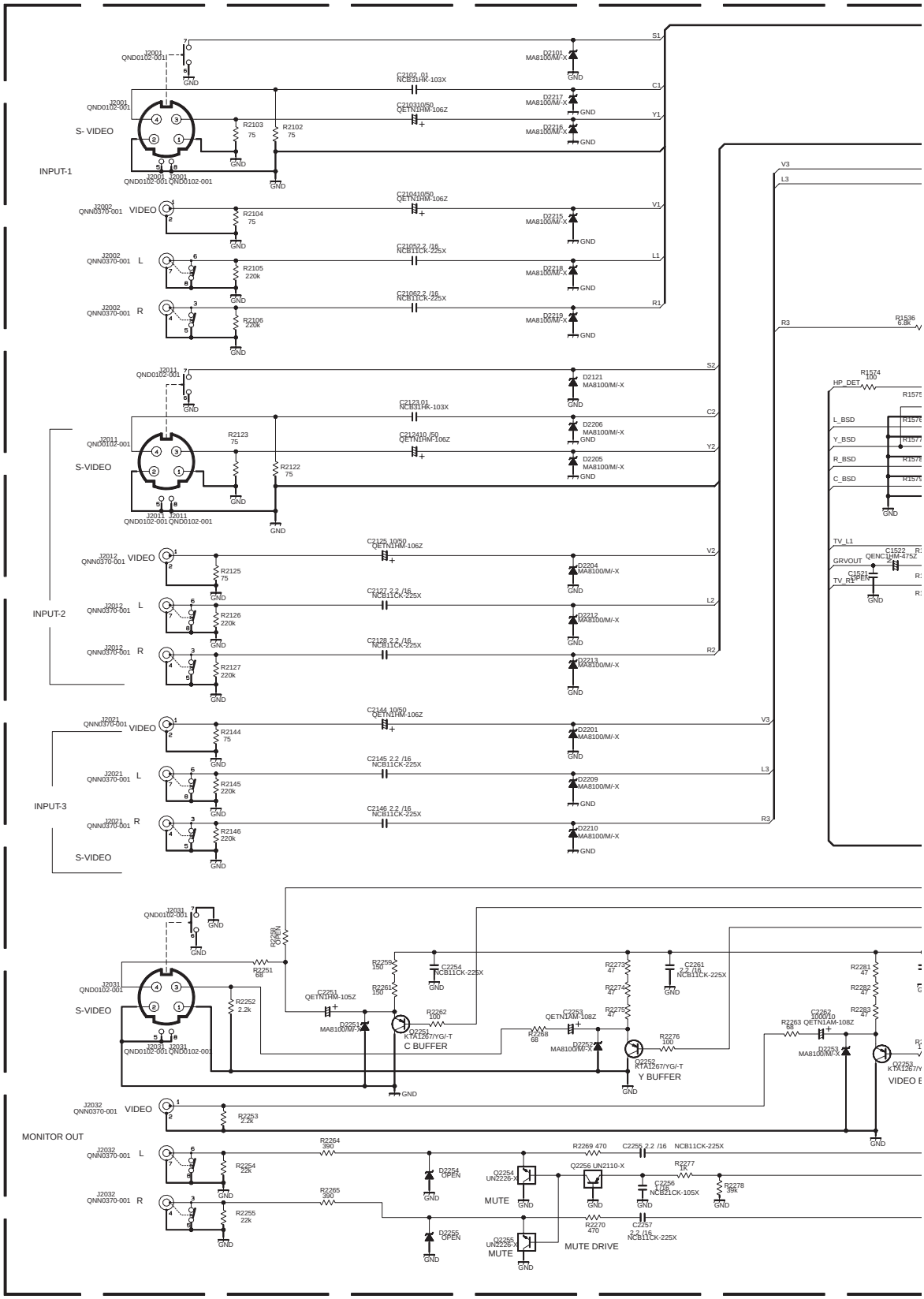
CIRCUIT DIAGRAMS

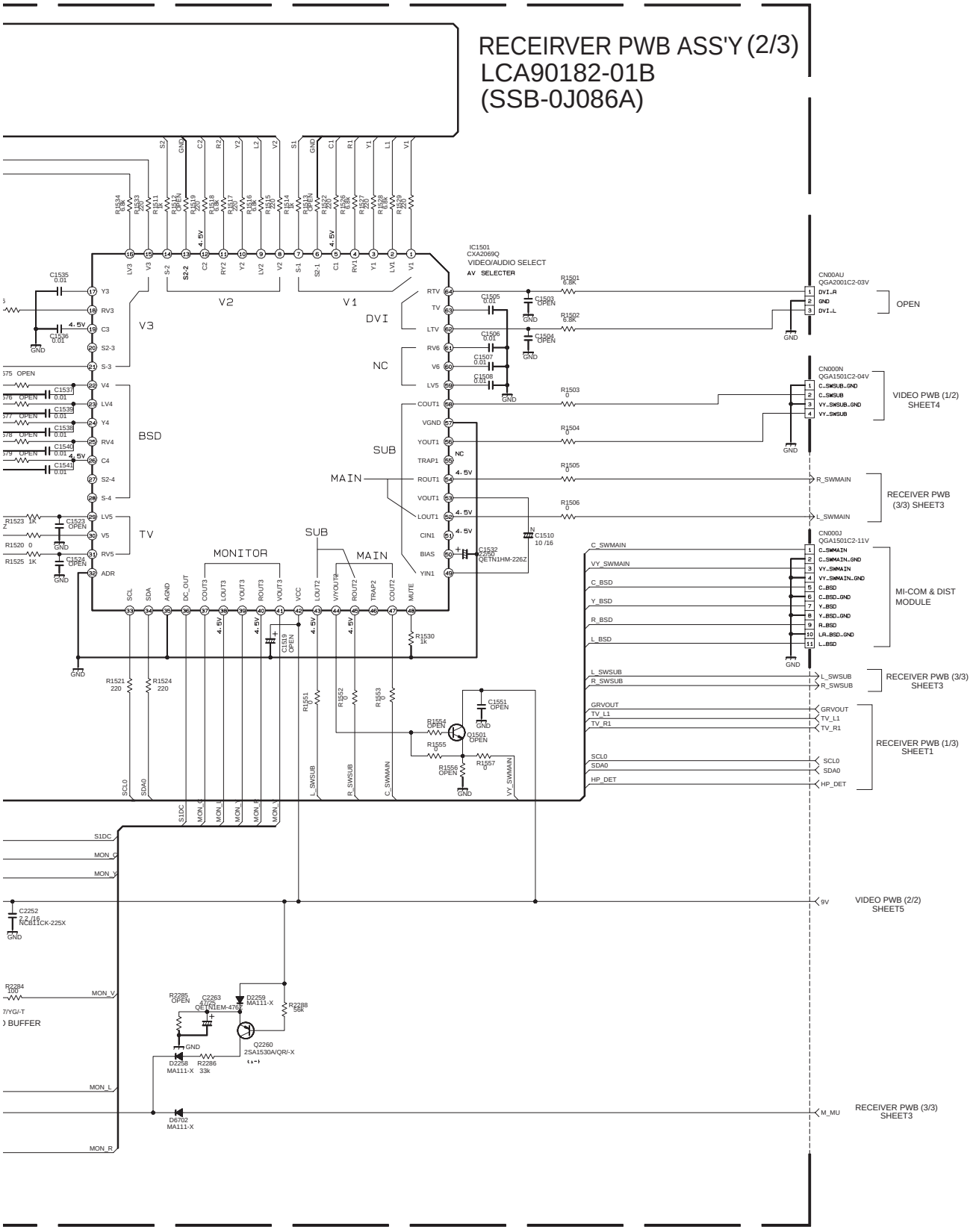
RECEIVER PWB CIRCUIT DIAGRAM (1/3) SHEET1



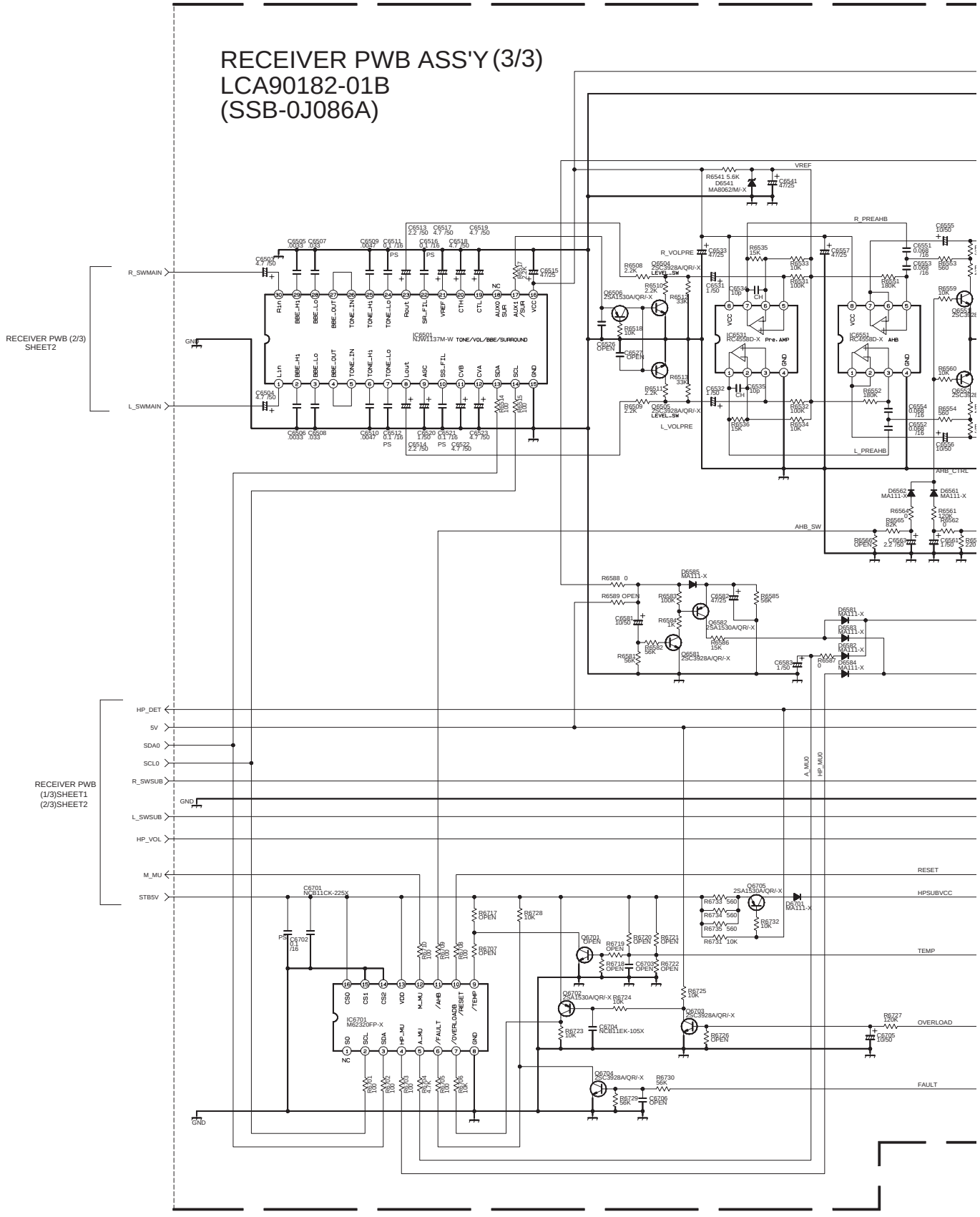


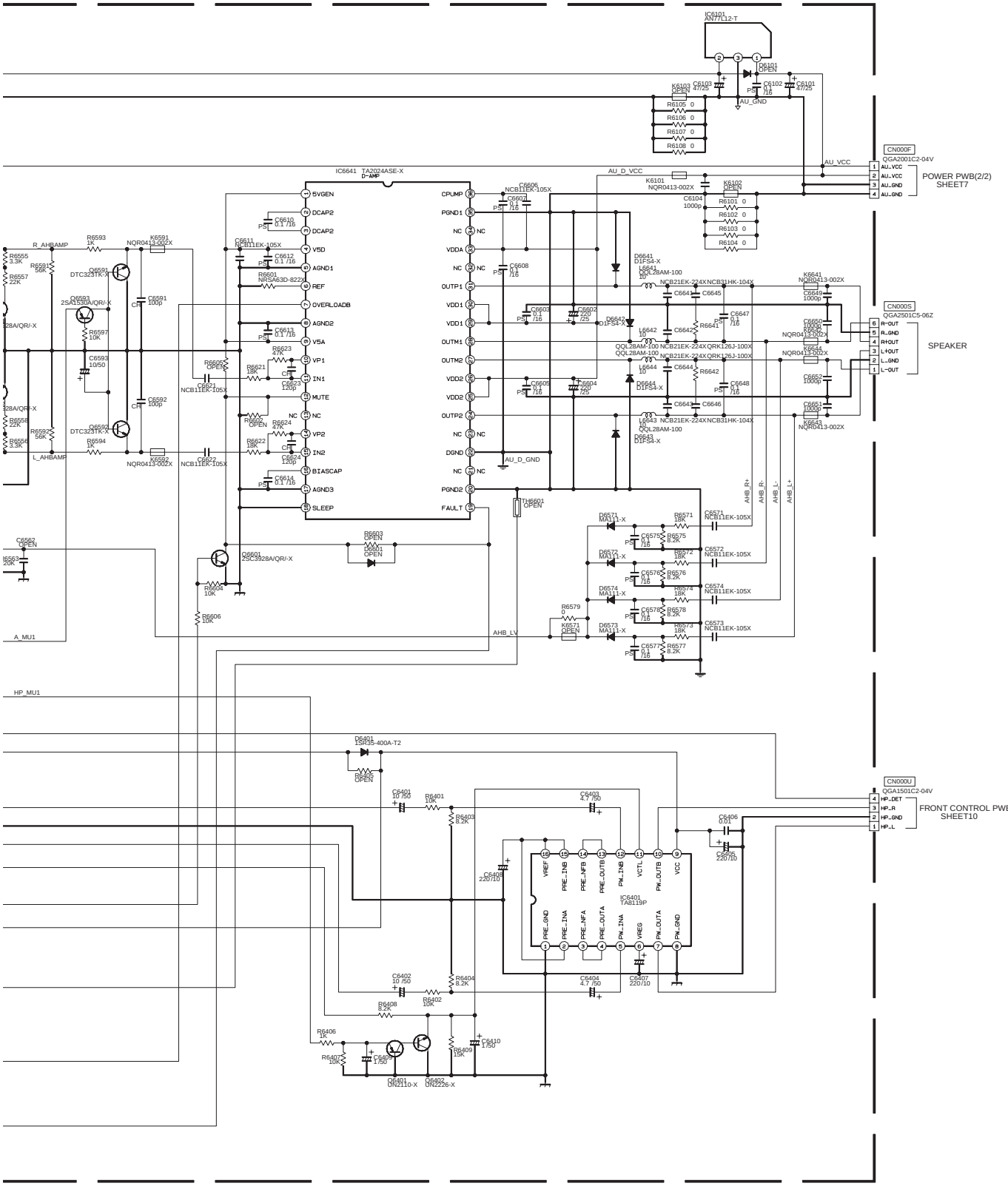
RECEIVER PWB ASS'Y (1/3)
LCA90182-01B
(SSB-0J086A)

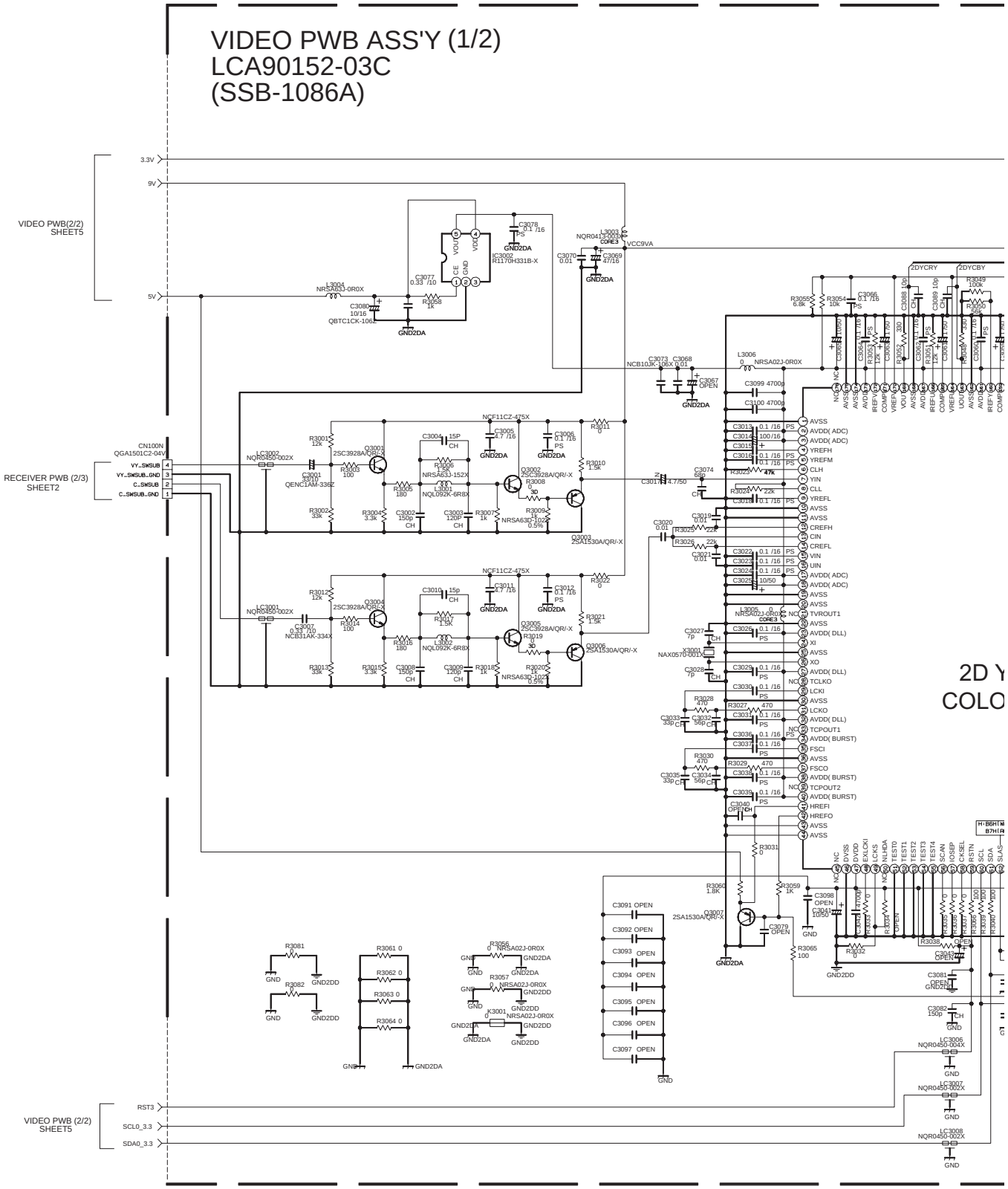

INPUT-1
S- VIDEO
VIDEO
L
R
INPUT-2
S-VIDEO
INPUT-3
S-VIDEO
MONITOR OUT
VIDEO
L
R
C BUFFER
Y BUFFER
VIDEO B
MUTE
MUTE
MUTE DRIVE
HP_DET
L_BSD
Y_BSD
R_BSD
C_BSD
TV_L1
GRVOUT
TV_R1
GND

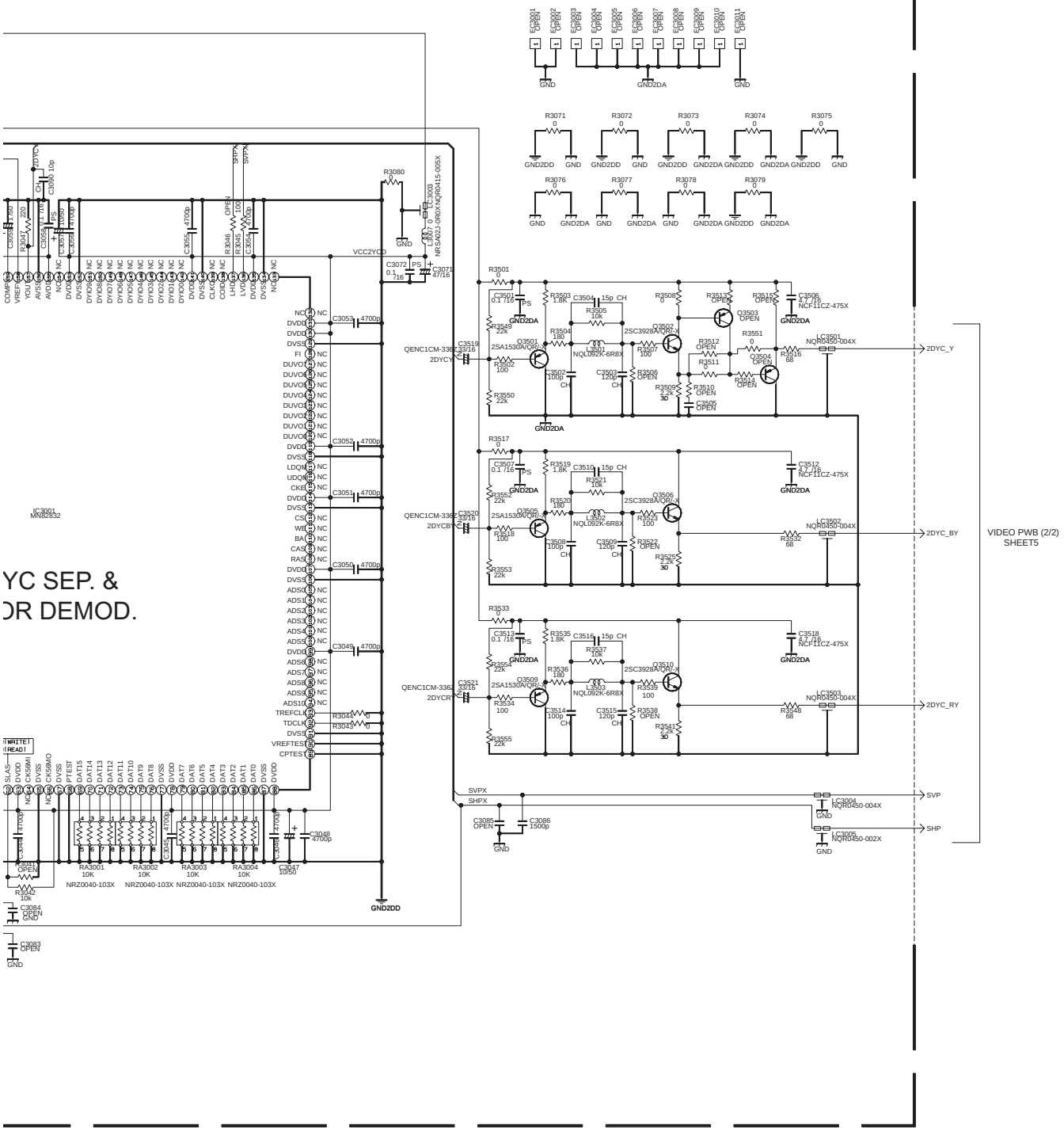

RECEIRVER PWB ASS'Y (2/3)
LCA90182-01B
(SSB-0J086A)
IC1501
CXA2069Q
VIDEO/AUDIO SELECT
AV SELECTER
V3
V2
V1
DVI
NC
BSD
SUB
MAIN
TV
MONITOR
CN00AU
QGA2001C2-03V
OPEN
CN000N
QGA1501C2-04V
VIDEO PWB (1/2)
SHEET4
R_SWMAIN
L_SWMAIN
RECEIVER PWB
(3/3) SHEET3
CN000J
QGA1501C2-11V
MI-COM & DIST
MODULE
L_SWSUB
R_SWSUB
RECEIVER PWB (3/3)
SHEET3
GRVOUT
TV_L1
TV_R1
RECEIVER PWB (1/3)
SHEET1
SCL0
SDA0
HP_DET
9V
VIDEO PWB (2/2)
SHEET5
M_MU
RECEIVER PWB (3/3)
SHEET3
C_SWMAIN
VY_SWMAIN
C_BSD
Y_BSD
R_BSD
L_BSD
S1DC
MON_C
MON_Y
MON_L
MON_R
Q1501
OPEN
Q2260
2SA1530A/QR/-X
D2259
MA111-X
D2258
MA111-X
D6702
MA111-X
GND

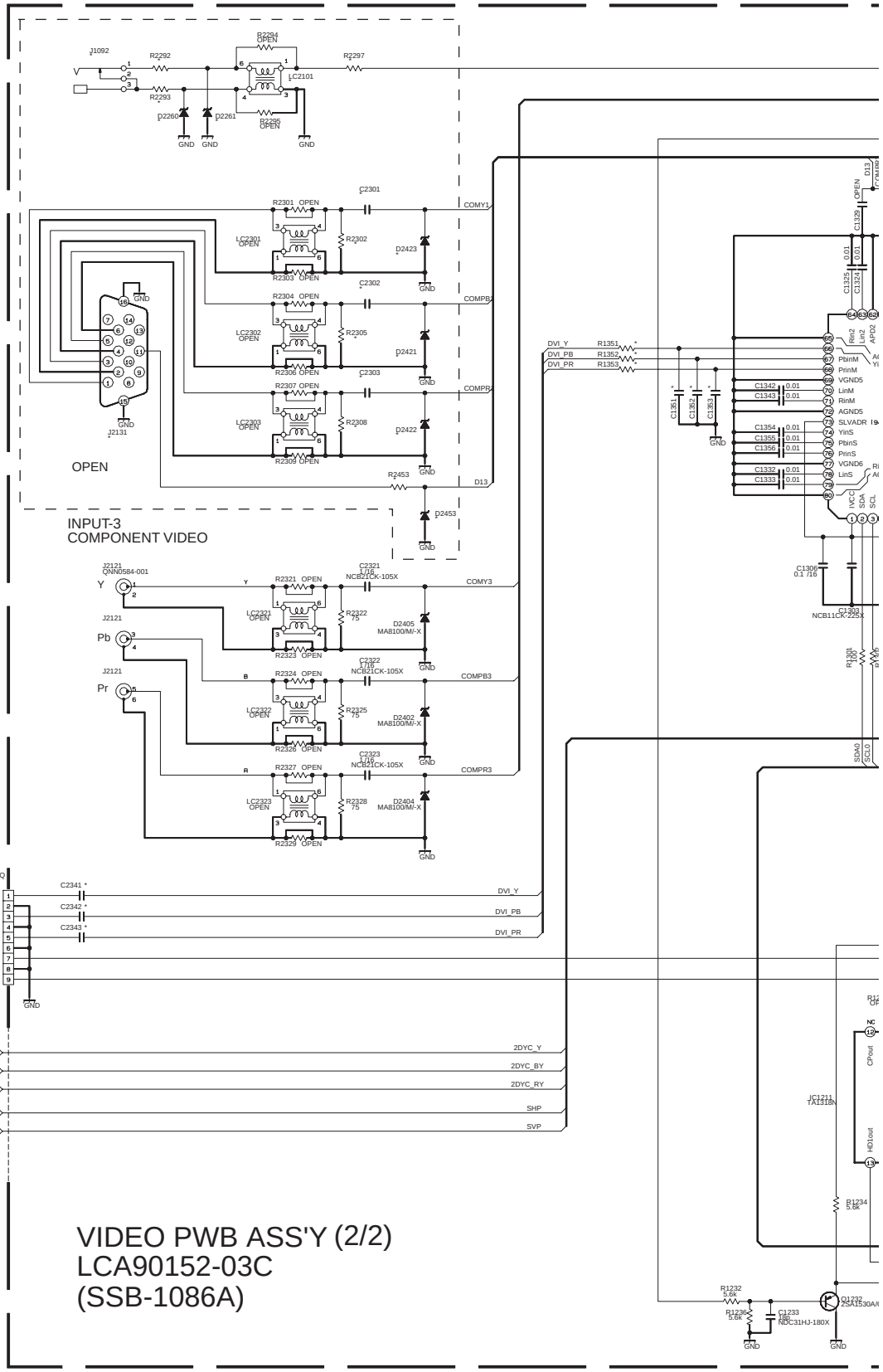
RECEIVER PWB ASS'Y (3/3)
LCA90182-01B
(SSB-0J086A)



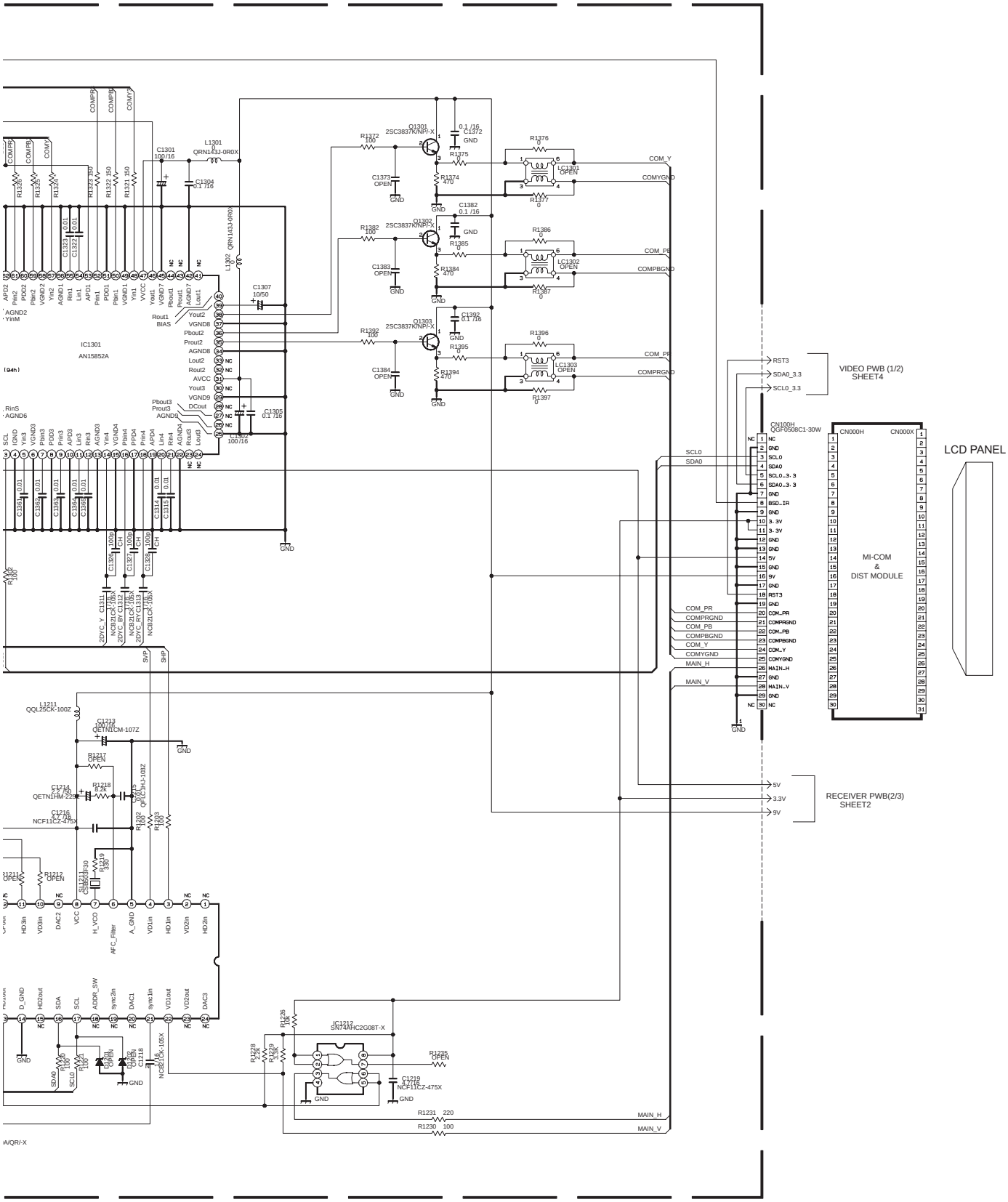

IC6101
AN7812-T
D6101
OPEN
C6102
0.1
/16
C6101
47/25
C6103
47/25
K6103
OPEN
AU_GND
R6105 0
R6106 0
R6107 0
R6108 0
CN000F
QGA2001C2-04V
AU-VCC
AU-VCC
AU-GND
AU-GND
POWER PWB(2/2)
SHEET7
AU_VCC
AU_D_VCC
K6101
NQR0413-002X
K6102
OPEN
C6104
1000p
R6101 0
R6102 0
R6103 0
R6104 0
IC6641 TA2024ASE-X
D-AMP
5VGEN
DCAP2
DCAP2
V5D
AGND1
REF
OVERLOADB
AGND2
V5A
VP1
IN1
MUTE
NC
VP2
IN2
BIASCAP
AGND3
SLEEP
CPUMP
PGND1
NC
VDDA
NC
OUTP1
VDD1
VDD1
OUTM1
OUTM2
VDD2
VDD2
OUTP2
NC
DGND
NC
PGND2
FAULT
C6606
NCB11EK-105X
C6607
0.1
/16
C6610
0.1 /16
C6611
NCB11EK-105X
C6612
0.1 /16
R6601
NRSA63D-822X
C6613
0.1 /16
R6623
47K
C6623
120p
R6622
18K
C6622
NCB11EK-105X
R6624
47K
C6624
120p
R6622
18K
C6621
NCB11EK-105X
C6614
0.1 /16
C6608
0.1
/16
C6603
0.1
/16
C6602
220
/25
C6605
0.1
/16
C6604
220
/25
AU_D_GND
TH6601
OPEN
D6641
D1FS4-X
D6642
D1FS4-X
D6644
D1FS4-X
D6643
D1FS4-X
L6641
QQL28AM-100
10
L6642
10
L6644
10
L6643
10
QQL28AM-100
NCB21EK-224X
NCB31HK-104X
NCB21EK-224X
QRK126J-100X
NCB21EK-224X
QRK126J-100X
NCB21EK-224X
NCB31HK-104X
C6641
C6645
C6642
C6643
C6644
C6646
C6647
0.1
/16
R6641
R6642
C6648
0.1
/16
K6641
NQR0413-002X
C6649
1000p
C6650
1000p
K6644
NQR0413-002X
C6652
1000p
C6651
1000p
K6643
NQR0413-002X
CN000S
QGA2501C5-06Z
R-OUT
R_GND
R+OUT
L+OUT
L_GND
L-OUT
SPEAKER
R_AHBAMP
L_AHBAMP
R6593
1K
K6591
NQR0413-002X
K6592
NQR0413-002X
R6555
3.3K
R6591
56K
R6557
22K
Q6591
DTC323TK-X
Q6593
2SA1530A/QR/-X
C6591
100p
R6597
10K
C6593
10/50
C6592
100p
R6558
22K
R6592
56K
R6556
3.3K
Q6592
DTC323TK-X
R6594
1K
C6622
NCB11EK-105X
C6582
OPEN
R6583
20K
R6604
10K
R6606
10K
Q6601
2SC3928A/QR/-X
R6603
OPEN
D6601
OPEN
A_MU1
AHB_LV
R6579
0
K6571
OPEN
D6571
MA111-X
D6572
MA111-X
D6574
MA111-X
D6573
MA111-X
R6571
18K
R6575
8.2K
R6572
18K
R6576
8.2K
R6574
18K
R6578
8.2K
R6573
18K
R6577
8.2K
C6575
0.1
/16
C6576
0.1
/16
C6578
0.1
/16
C6577
0.1
/16
C6571
NCB11EK-105X
C6572
NCB11EK-105X
C6574
NCB11EK-105X
C6573
NCB11EK-105X
AHB_R+
AHB_R-
AHB_L-
AHB_L+
HP_MU1
D6401
1SR35-400A-T2
R6405
OPEN
C6401
10 /50
R6401
10K
R6403
8.2K
C6403
4.7 /50
C6406
0.01
C6405
220/10
C6408
220/10
IC6401
TA8119P
PRE_GND
PRE_INA
PRE_NFA
PRE_OUTA
PW_INA
VREG
PW_OUTA
PW_GND
VREF
PRE_INB
PRE_NFB
PRE_OUTB
PW_INB
VCTL
PW_OUTB
VCC
C6402
10 /50
R6404
8.2K
R6402
10K
C6404
4.7 /50
C6407
220/10
R6408
8.2K
R6406
1K
R6407
10K
C6409
1/50
R6409
15K
C6410
1/50
Q6401
UN2110-X
Q6402
UN2226-X
CN000U
QGA1501C2-04V
HP-DET
HP-R
HP-GND
HP-L
FRONT CONTROL PWB
SHEET10

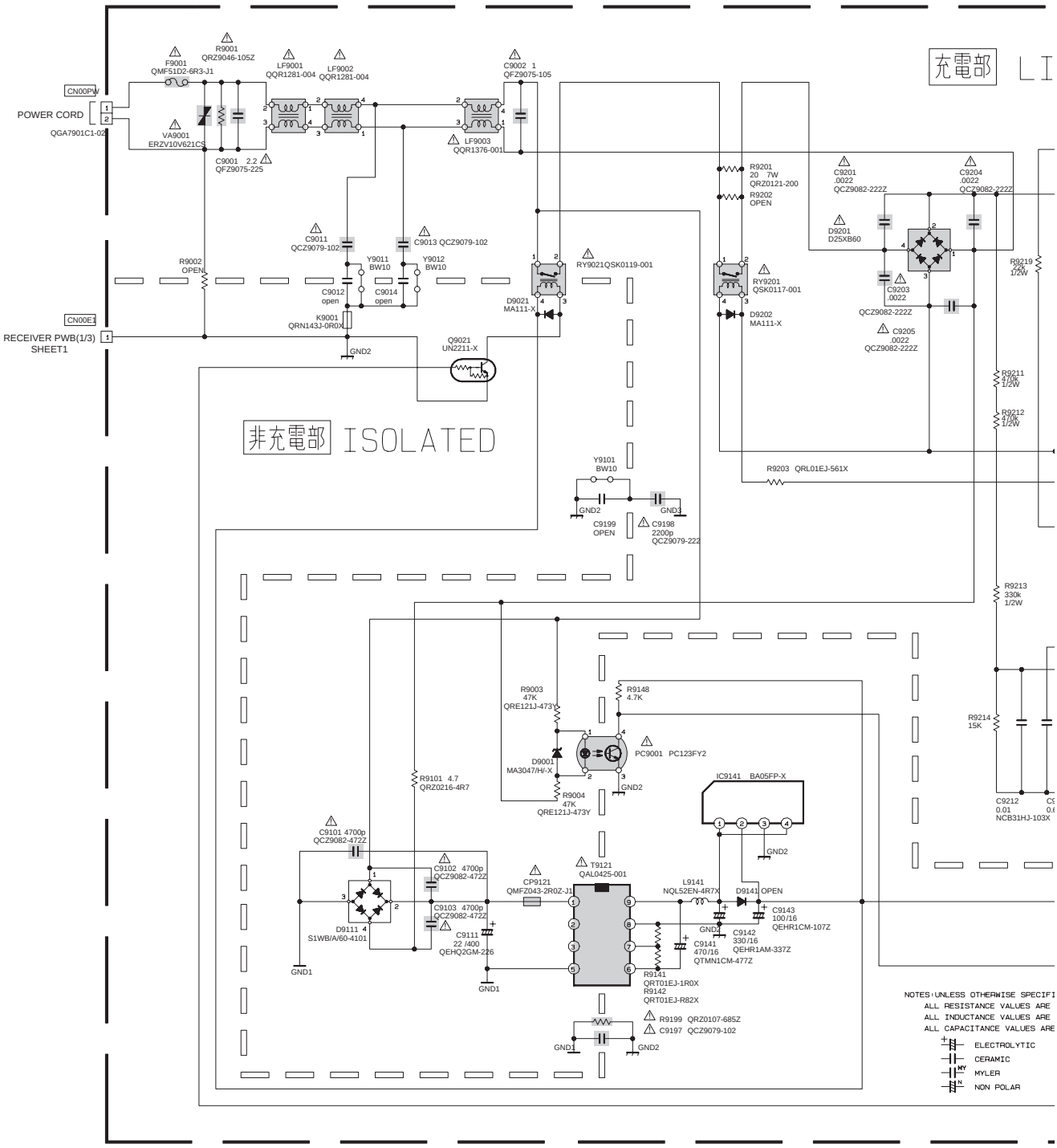

VIDEO PWB ASS'Y (1/2)
LCA90152-03C
(SSB-1086A)
VIDEO PWB(2/2) SHEET5
RECEIVER PWB (2/3) SHEET2
VIDEO PWB (2/2) SHEET5
3.3V
9V
5V
RST3
SCL0_3.3
SDA0_3.3
CN100N
QGA1501C2-04V
VY_SWSUB
VY_SWSUB_GND
C_SWSUB
C_SWSUB_GND
IC3002
R1170H331B-X
Q3001
Q3002
Q3003
Q3004
Q3005
Q3006
2SC3928A/QR/-X
2SA1530A/QR/-X
Q3007
2SA1530A/QR/-X
2DYCRY
2DYCBY
2D Y
COLO
GND2DA
GND2DD

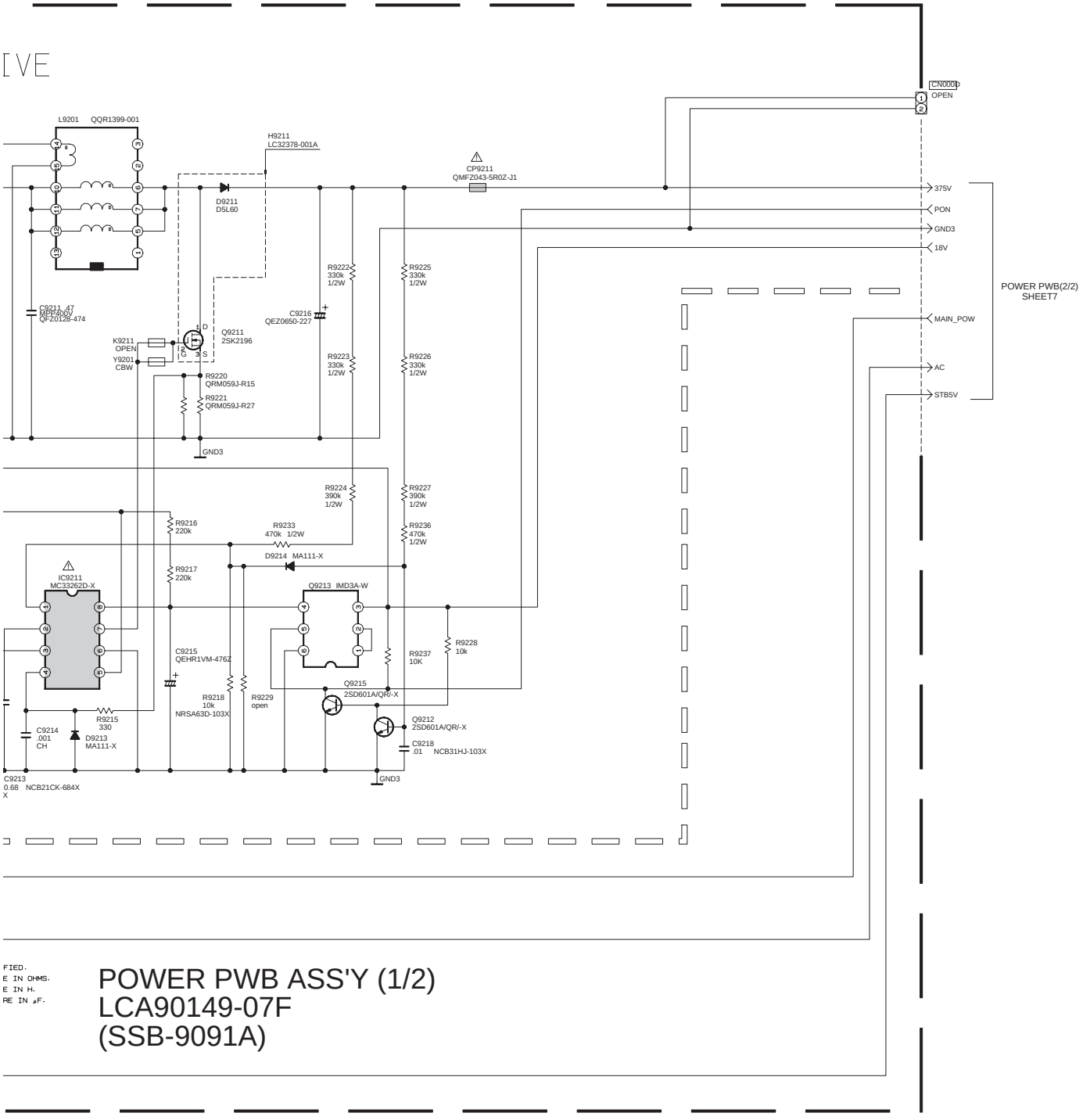

YC SEP. &
OR DEMOD.
VIDEO PWB (2/2)
SHEET5
2DYC_Y
2DYC_BY
2DYC_RY
SVP
SHP
GND2DA
GND2DD
IC3001
MN662832
QENC1CM-336
2DYCY
2DYCB
2DYCR
VCC2YCD
SVPX
SHPX
RA3001 10K NRZ0040-103X
RA3002 10K NRZ0040-103X
RA3003 10K NRZ0040-103X
RA3004 10K NRZ0040-103X
LC3001 NRS4020-0R0YNQR0415-005X
LC3003 NQR0450-004X
LC3004 NQR0450-004X
LC3005 NQR0450-002X
LC3501 NQR0450-004X
LC3502 NQR0450-004X
LC3503 NQR0450-004X
Q3501 2SA1530A/QR-X
Q3502 2SC3928A/QR-X
Q3503 OPEN
Q3504 OPEN
Q3506 2SC3928A/QR-X
Q3507 OPEN
Q3509 2SA1530A/QR-X
Q3510 2SC3928A/QR-X
Q3511 OPEN



	LCA90152-03C SSB-1086A
J1092	OPEN
J2131	OPEN
CN10AQ	QGA2001C1 -09V
LC2101	OPEN
C1351	OPEN
C1352	OPEN
C1353	OPEN
R1324	OPEN
R1325	OPEN
R1326	OPEN
R1351	0
R1352	0
R1353	0
D2260	OPEN
D2261	OPEN
R2292	OPEN
R2293	OPEN
R2297	OPEN
C2301	OPEN
C2302	OPEN
C2303	OPEN
C2341	NCB21CK -105X
C2342	NCB21CK -105X
C2343	NCB21CK -105X
R2302	OPEN
R2305	OPEN
R2308	OPEN
D2421	OPEN
D2422	OPEN
D2423	OPEN
D2453	OPEN
R2453	OPEN

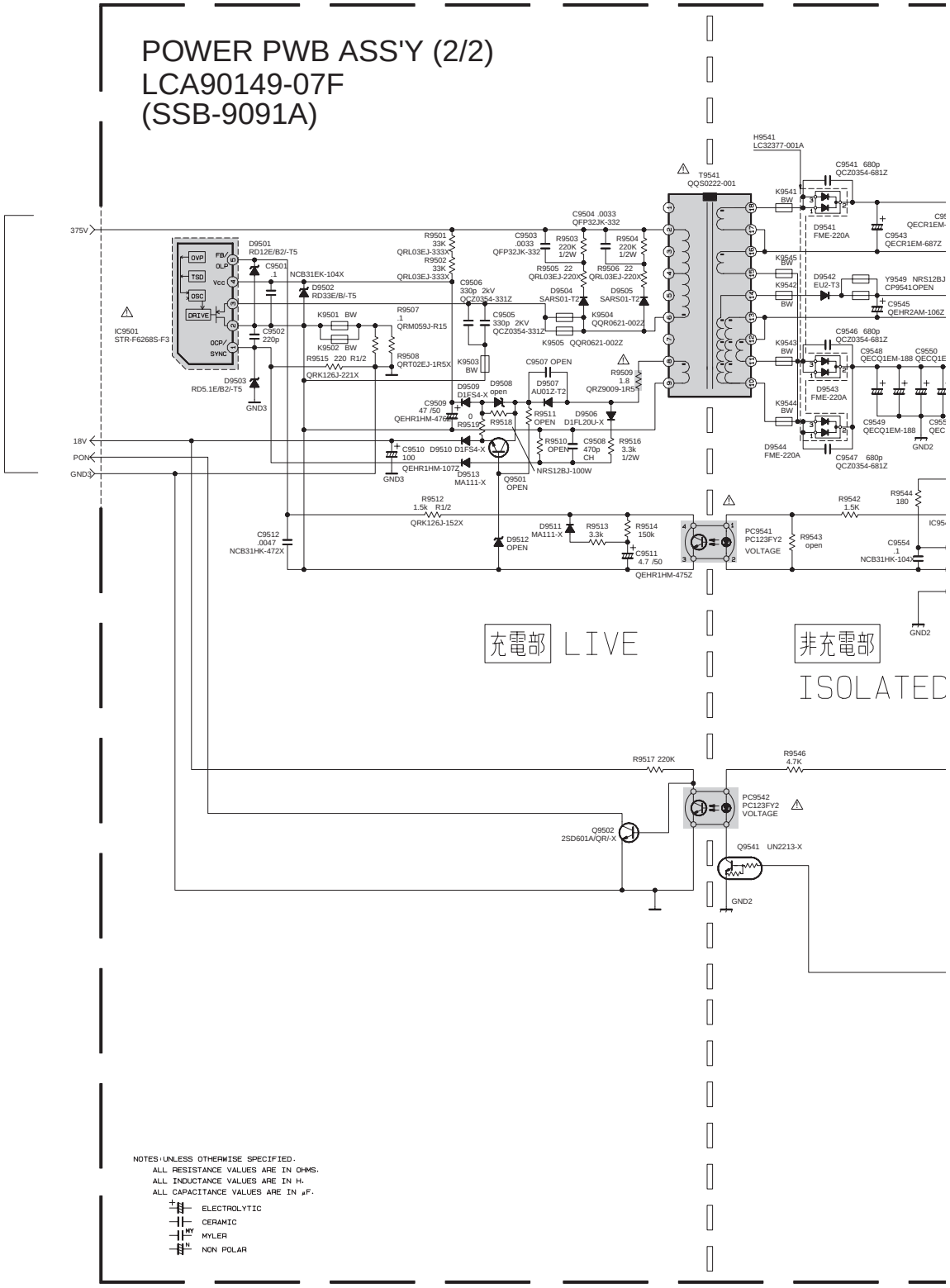

IC1301
AN15852A
Q1301
2SC3837K/NP/-X
Q1302
2SC3837K/NP/-X
Q1303
2SC3837K/NP/-X
L1301
QRN1433-0R0X
L1302
QRN1433-0R0X
JC1212
SN74AHC2G08T-X
CN100H
QGF0508C1-30W
CN000H
CN000X
MI-COM
&
DIST MODULE
LCD PANEL
VIDEO PWB (1/2)
SHEET4
RECEIVER PWB(2/3)
SHEET2
COM_Y
COMYGND
COM_PB
COMPBGND
COM_PR
COMPRGND
MAIN_H
MAIN_V
SCL0
SDA0
RST3
SDA0_3.3
SCL0_3.3
5V
3.3V
9V
GND

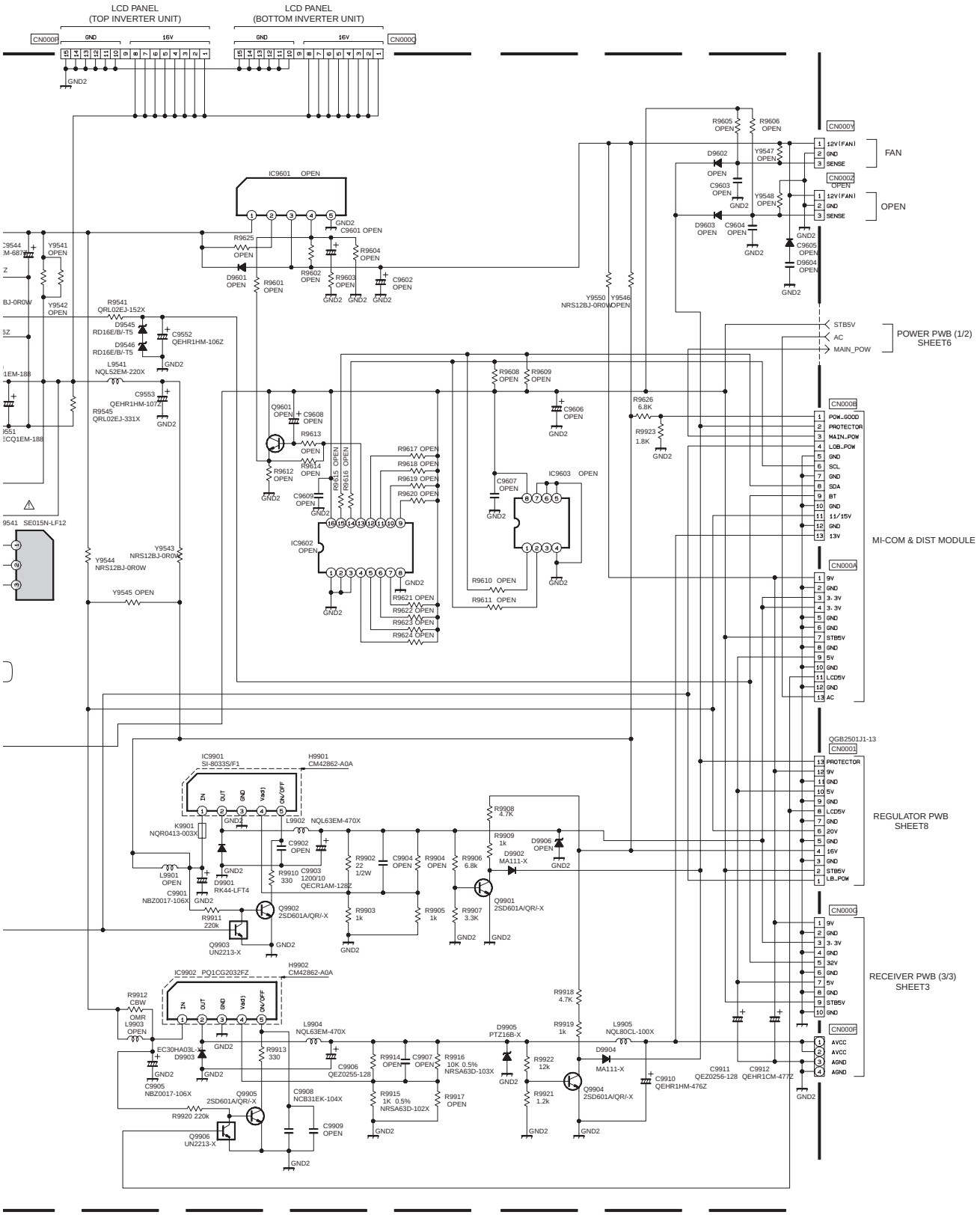

充電部
非充電部 ISOLATED
CN00PW
POWER CORD
QGA7901C1-02
F9001 QMF51D2-6R3-J1
R9001 QRZ9046-105Z
VA9001 ERZV10V621CS
LF9001 QQR1281-004
LF9002 QQR1281-004
C9001 2.2 QFZ9075-225
C9002 1 QFZ9075-105
LF9003 QQR1376-001
CN00E1
RECEIVER PWB(1/3) SHEET1
R9002 OPEN
C9011 QCZ9079-102
C9013 QCZ9079-102
Y9011 BW10
Y9012 BW10
C9012 open
C9014 open
K9001 QRN143J-0R0X
GND2
Q9021 UN2211-X
RY9021QSK0119-001
D9021 MA111-X
R9201 20 7W QRZ0121-200
R9202 OPEN
RY9201 QSK0117-001
D9202 MA111-X
C9201 .0022 QCZ9082-222Z
C9204 .0022 QCZ9082-222Z
D9201 D25XB60
C9203 .0022 QCZ9082-222Z
C9205 .0022 QCZ9082-222Z
R9219 .25K 1/2W
R9211 470k 1/2W
R9212 470k 1/2W
R9203 QRL01EJ-561X
Y9101 BW10
GND3
C9199 OPEN
C9198 2200p QCZ9079-222
R9213 330k 1/2W
R9214 15K
C9212 0.01 NCB31HJ-103X
R9003 47K QRE121J-473Y
R9148 4.7K
D9001 MA3047/H/-X
PC9001 PC123FY2
R9004 47K QRE121J-473Y
R9101 4.7 QRZ0216-4R7
IC9141 BA05FP-X
C9101 4700p QCZ9082-472Z
C9102 4700p QCZ9082-472Z
C9103 4700p QCZ9082-472Z
D9111 S1WB/A/60-4101
C9111 22 /400 QEHQ2GM-226
GND1
CP9121 QMFZ043-2R0Z-J1
T9121 QAL0425-001
L9141 NQL52EN-4R7X
D9141 OPEN
C9143 100/16 QEHR1CM-107Z
C9142 330/16 QEHR1AM-337Z
C9141 470/16 QTMN1CM-477Z
R9141 QRT01EJ-1R0X
R9142 QRT01EJ-R82X
R9199 QRZ0107-685Z
C9197 QCZ9079-102
NOTES:UNLESS OTHERWISE SPECIFI
ALL RESISTANCE VALUES ARE
ALL INDUCTANCE VALUES ARE
ALL CAPACITANCE VALUES ARE
ELECTROLYTIC
CERAMIC
MYLER
NON POLAR



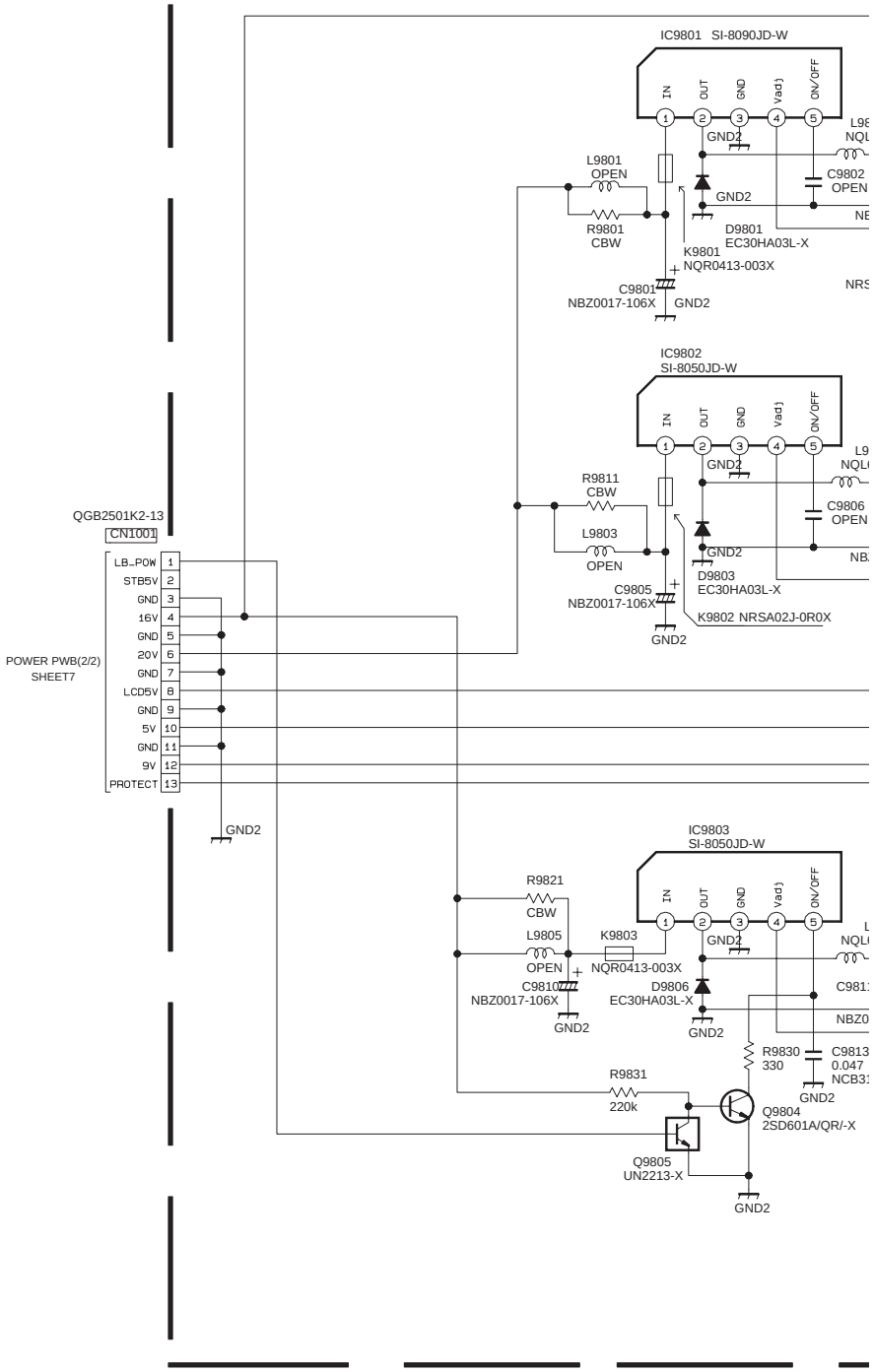
FIED.
E IN OHMS.
E IN H.
RE IN μF.

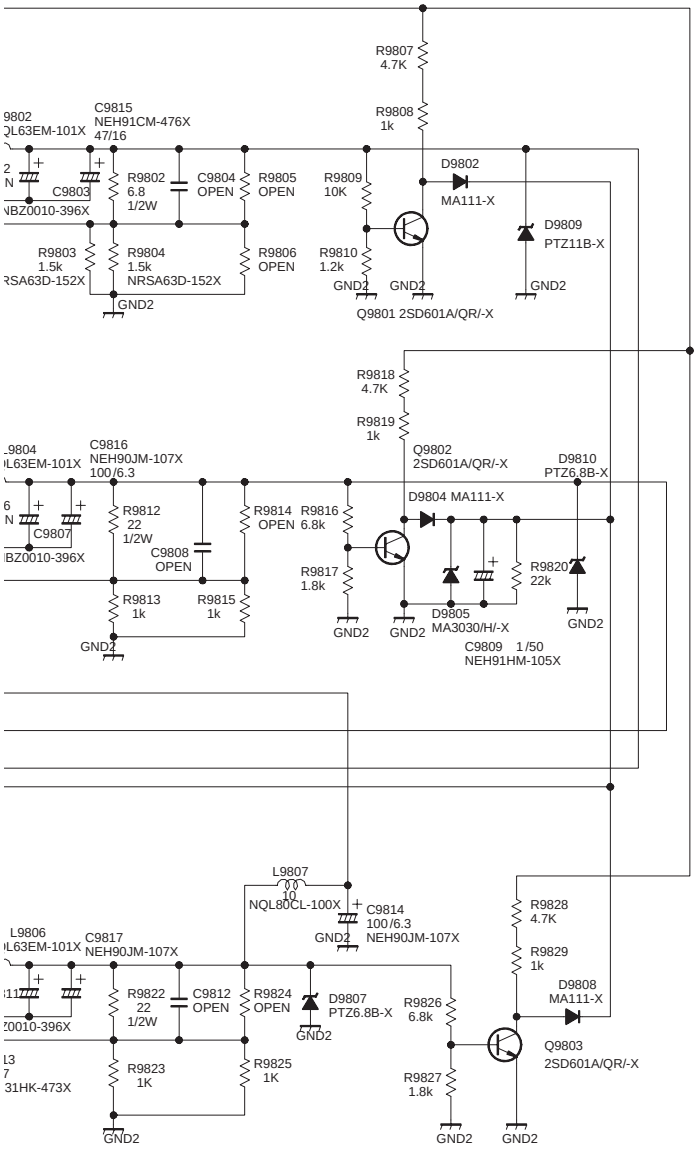
POWER PWB ASS'Y (1/2)
LCA90149-07F
(SSB-9091A)


POWER PWB ASS'Y (2/2)
LCA90149-07F
(SSB-9091A)
POWER PWB (1/2)
SHEET6
375V
18V
PON
GND3
IC9501
STR-F6268S-F3
OVP
TSD
OSC
DRIVE
OCP/
SYNC
FB/
OLP
Vcc
D9501
RD12E/B2/-T5
C9501
1
NCB31EK-104X
D9502
RD33E/B/-T5
D9503
RD5.1E/B2/-T5
C9502
220p
K9501 BW
K9502 BW
R9507
.1
QRM059J-R15
R9515 220 R1/2
QRK126J-221X
R9508
QRT02EJ-1R5X
R9501
33K
QRL03EJ-333X
R9502
33K
QRL03EJ-333X
C9503
.0033
QFP32JK-332
C9504 .0033
QFP32JK-332
R9503
220K
1/2W
R9504
220K
1/2W
R9505 22
QRL03EJ-220X
R9506 22
QRL03EJ-220X
C9506
330p 2kV
QCZ0354-331Z
C9505
330p 2KV
QCZ0354-331Z
D9504
SARS01-T2
D9505
SARS01-T2
K9504
QQR0621-002Z
K9505 QQR0621-002Z
K9503
BW
C9507 OPEN
D9507
AU01Z-T2
R9509
1.8
QRZ9009-1R5
D9509
D1FS4-X
D9508
open
C9509
47 /50
QEHR1HM-470Z
R9511
OPEN
D9506
D1FL20U-X
R9510
OPEN
C9508
470p
CH
R9516
3.3k
1/2W
C9510
100
QEHR1HM-107Z
D9513
MA111-X
R9518
NRS12BJ-100W
Q9501
OPEN
R9512
1.5k R1/2
QRK126J-152X
C9512
.0047
NCB31HK-472X
D9511
MA111-X
R9513
3.3k
D9512
OPEN
R9514
150k
C9511
4.7 /50
QEHR1HM-475Z
PC9541
PC123FY2
VOLTAGE
R9543
open
R9542
1.5K
R9544
180
C9554
.1
NCB31HK-104X
H9541
LC32377-001A
T9541
QQS0222-001
K9541
BW
K9545
BW
K9542
BW
K9543
BW
K9544
BW
C9541 680p
QCZ0354-681Z
D9541
FME-220A
C9543
QECR1EM-687Z
D9542
EU2-T3
Y9549 NRS12BJ
CP9541OPEN
C9545
QEHR2AM-106Z
C9546 680p
QCZ0354-681Z
C9548
QECQ1EM-188
C9550
QECQ1E
D9543
FME-220A
C9549
QECQ1EM-188
D9544
FME-220A
C9547 680p
QCZ0354-681Z
GND2
充電部 LIVE
非充電部
ISOLATED
R9517 220K
R9546
4.7K
PC9542
PC123FY2
VOLTAGE
Q9502
2SD601A/QR/-X
Q9541 UN2213-X
NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.
ELECTROLYTIC
CERAMIC
MYLER
NON POLAR


LCD PANEL
(TOP INVERTER UNIT)
LCD PANEL
(BOTTOM INVERTER UNIT)
CN000F
CN000Q
GND
16V
GND2
IC9601 OPEN
C9601 OPEN
R9625 OPEN
R9604 OPEN
R9602 OPEN
R9603 OPEN
C9602 OPEN
D9601 OPEN
R9601 OPEN
Y9541 OPEN
Y9542 OPEN
R9541 QRL02EJ-152X
D9545 RD16E/B/-T5
D9546 RD16E/B/-T5
C9552 QEHR1HM-106Z
L9541 NQL52EM-220X
C9553 QEHR1HM-107Z
R9545 QRL02EJ-331X
Y9544 NRS12BJ-0R0X
Y9543 NRS12BJ-0R0X
Y9545 OPEN
R9605 OPEN
R9606 OPEN
Y9547 OPEN
D9602 OPEN
C9603 OPEN
Y9548 OPEN
D9603 OPEN
C9604 OPEN
C9605 OPEN
D9604 OPEN
Y9550 NRS12BJ-0R0X
Y9546 OPEN
CN000Y
12V(FAN)
GND
SENSE
FAN
CN000Z
OPEN
STB5V
AC
MAIN_POW
POWER PWB (1/2)
SHEET6
R9608 OPEN
R9609 OPEN
C9606 OPEN
R9626 6.8K
R9923 1.8K
Q9601 OPEN
C9608 OPEN
R9613 OPEN
R9614 OPEN
R9612 OPEN
C9609 OPEN
R9615 OPEN
R9616 OPEN
R9617 OPEN
R9618 OPEN
R9619 OPEN
R9620 OPEN
IC9602 OPEN
C9607 OPEN
IC9603 OPEN
R9610 OPEN
R9611 OPEN
R9621 OPEN
R9622 OPEN
R9623 OPEN
R9624 OPEN
CN000B
POW_GOOD
PROTECTOR
MAIN_POW
LOB_POW
GND
SCL
GND
SDA
BT
GND
11/15V
GND
13V
MI-COM & DIST MODULE
CN000A
9V
GND
3.3V
3.3V
GND
GND
STB5V
GND
5V
GND
LCD5V
GND
AC
IC9901
SI-8033S/F1
H9901
CM42862-A0A
IN
OUT
GND
Vadj
ON/OFF
K9901 NQR0413-003X
L9902 NQL63EM-470X
C9902 OPEN
L9901 OPEN
D9901 RK44-LFT4
C9901 NBZ0017-106X
R9910 330
C9903 1200/10 QECR1AM-128Z
R9902 22 1/2W
C9904 OPEN
R9904 OPEN
R9906 6.8k
R9908 4.7K
R9909 1k
D9906 OPEN
D9902 MA111-X
Q9901 2SD601A/QR/-X
R9907 3.3K
R9903 1k
R9905 1k
Q9902 2SD601A/QR/-X
R9911 220k
Q9903 UN2213-X
QGB2501J1-13
CN0001
PROTECTOR
9V
GND
5V
GND
LCD5V
GND
20V
GND
16V
GND
STB5V
LB_POW
REGULATOR PWB
SHEET8
CN000C
9V
GND
3.3V
GND
32V
GND
5V
GND
STB5V
GND
RECEIVER PWB (3/3)
SHEET3
IC9902 PQ1CG2032FZ
H9902
CM42862-A0A
R9912 CBW OMR
L9903 OPEN
EC30HA03L-X
D9903
C9905 NBZ0017-106X
R9913 330
L9904 NQL63EM-470X
C9906 QEZ0255-128
R9914 OPEN
C9907 OPEN
R9916 10K 0.5% NRSA63D-103X
R9915 1K 0.5% NRSA63D-102X
R9917 OPEN
C9908 NCB31EK-104X
C9909 OPEN
Q9905 2SD601A/QR/-X
R9920 220k
Q9906 UN2213-X
D9905 PTZ16B-X
R9922 12k
R9921 1.2k
Q9904 2SD601A/QR/-X
R9918 4.7K
R9919 1k
L9905 NQL80CL-100X
D9904 MA111-X
C9910 QEHR1HM-476Z
C9911 QEZ0256-128
C9912 QEHR1CM-477Z
CN000E
AVCC
AVCC
AGND
AGND

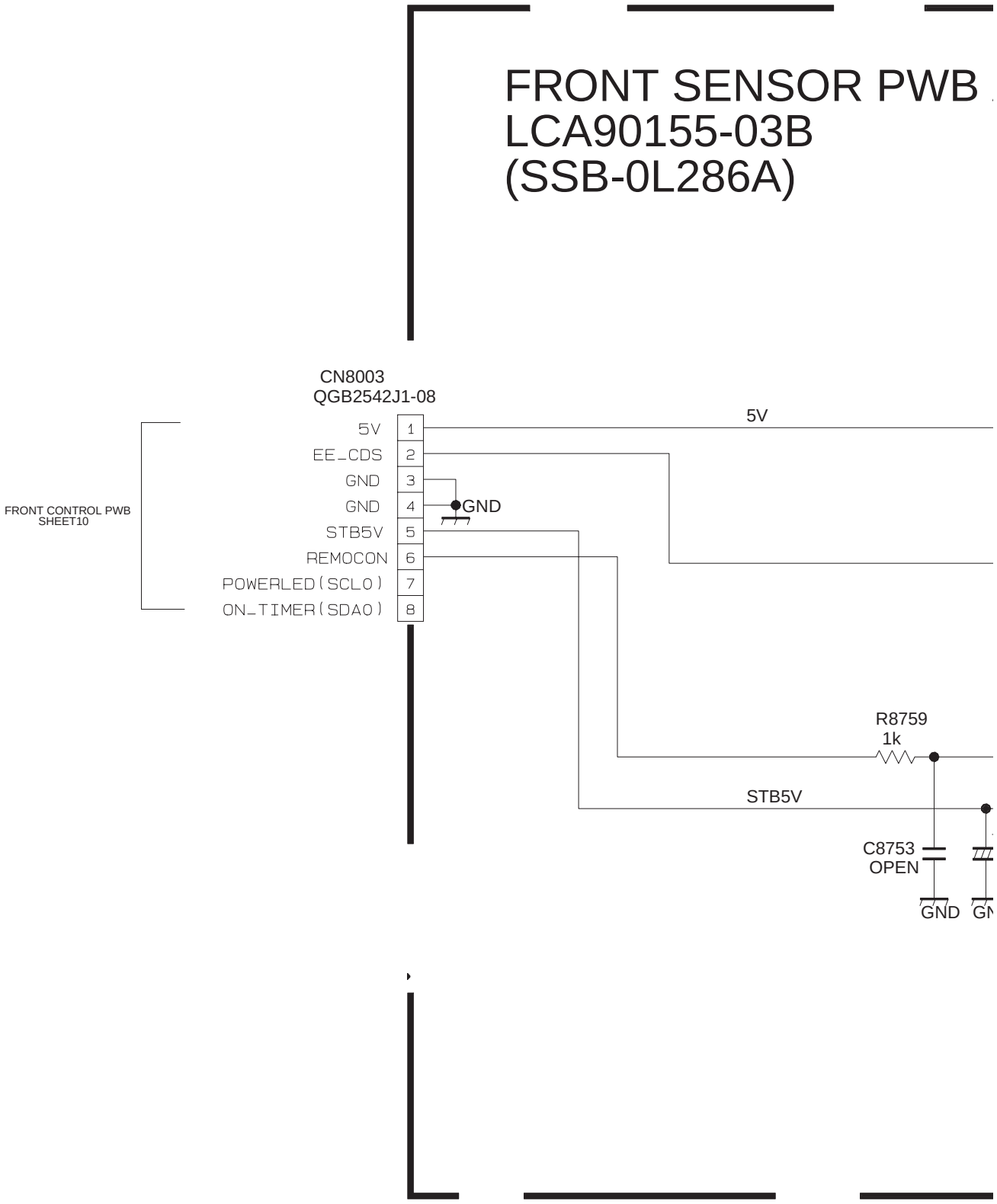
REGULATOR PWB ASS'Y
LCA90150-07D
(SSB-9191A)



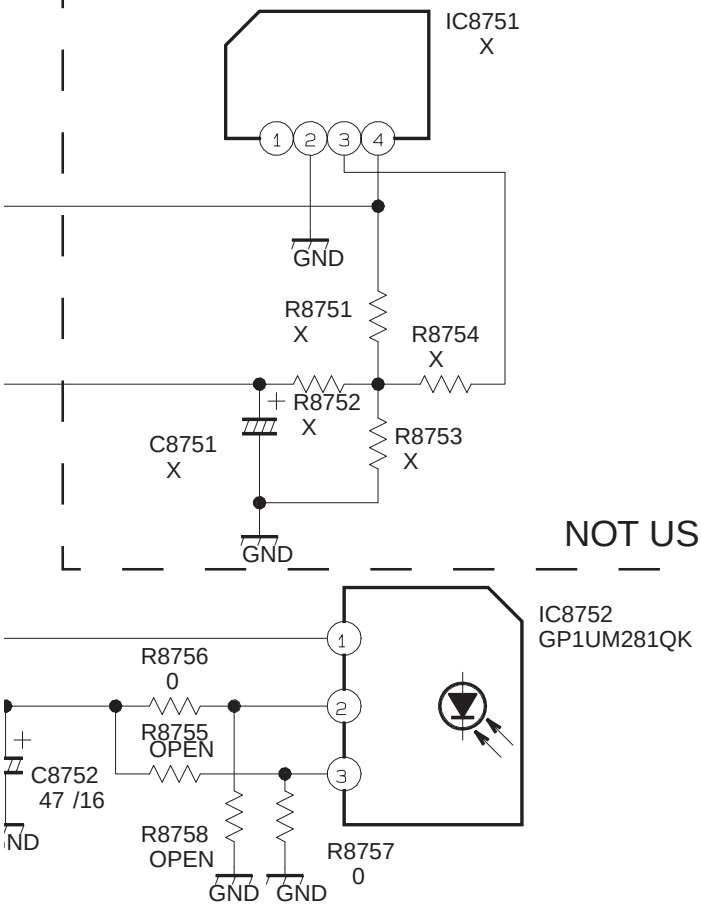


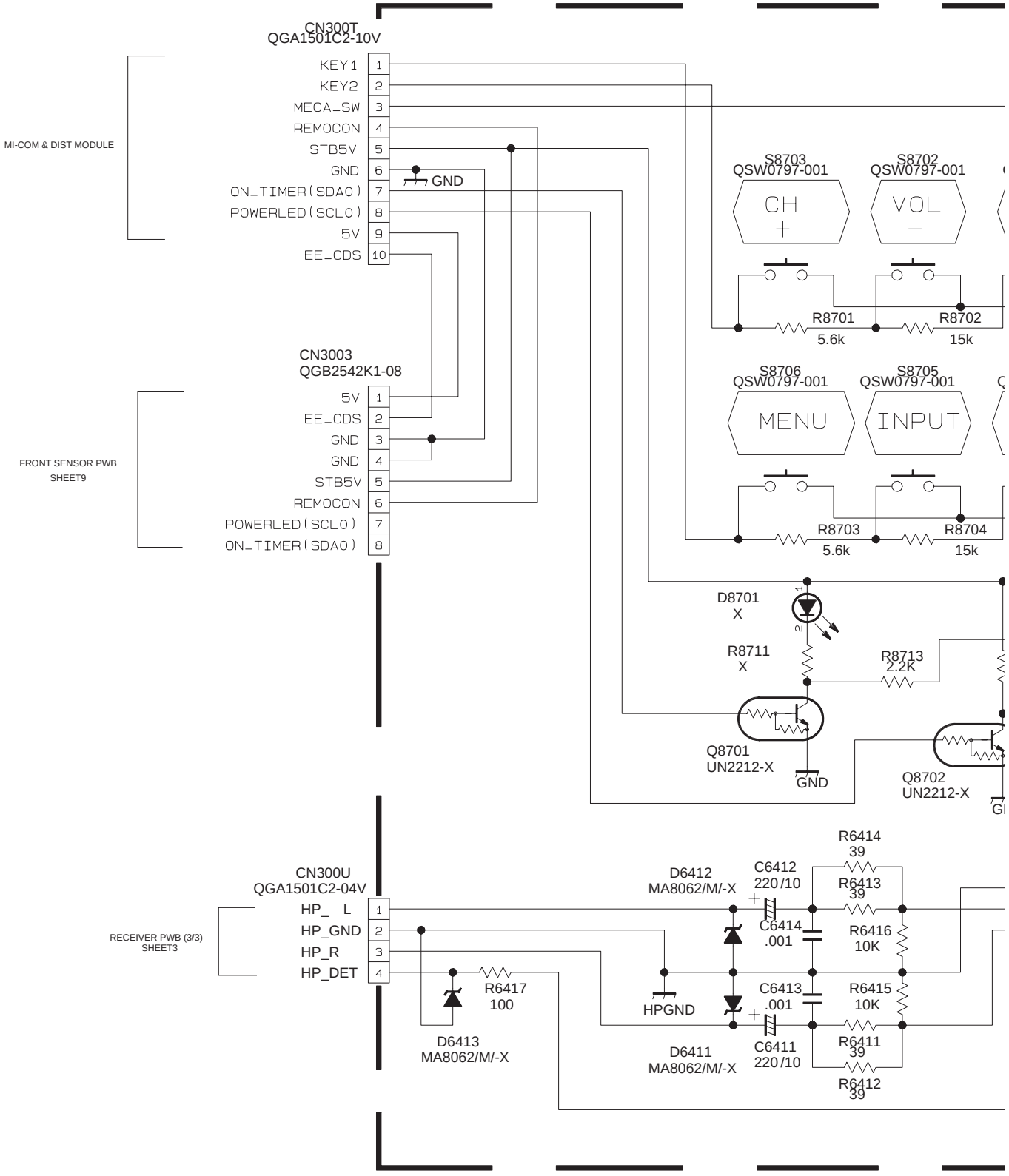
NOTES:UNLESS OTHERWISE SPECIFIED.
ALL RESISTANCE VALUES ARE IN OHMS.
ALL INDUCTANCE VALUES ARE IN H.
ALL CAPACITANCE VALUES ARE IN μF.

ELECTROLYTIC
CERAMIC
MY MYLER
N NON POLAR

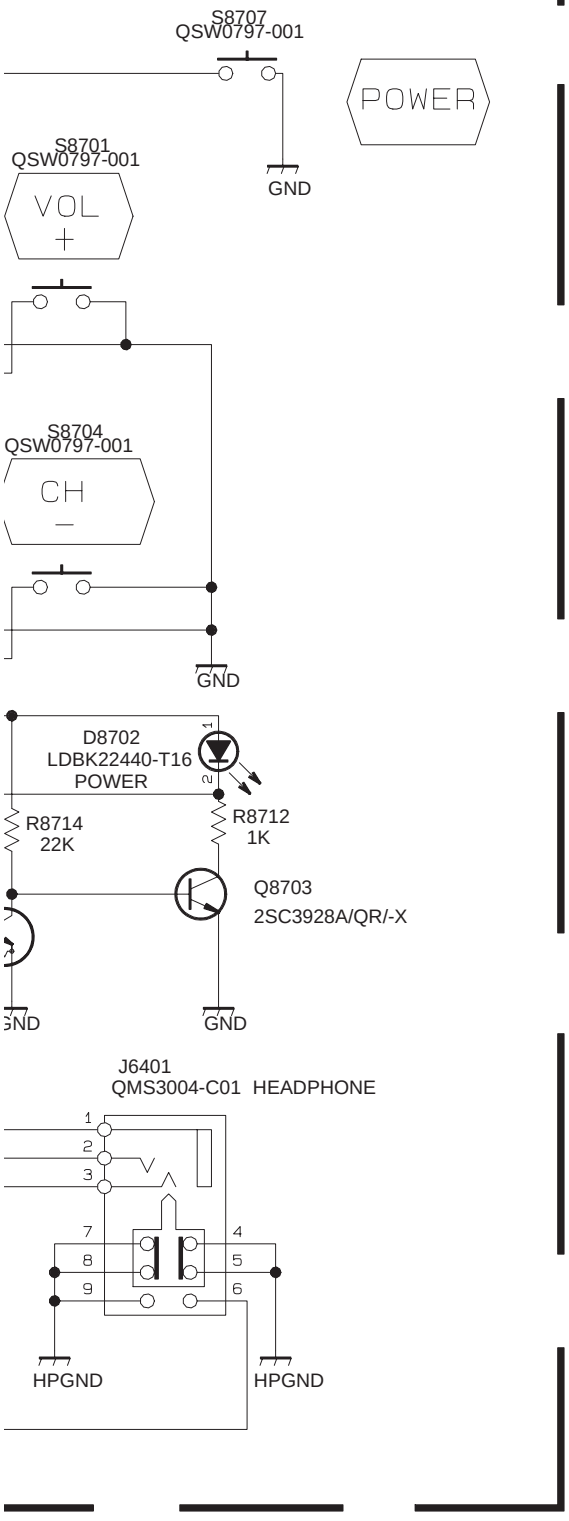

FRONT SENSOR PWB
LCA90155-03B
(SSB-0L286A)
CN8003
QGB2542J1-08
FRONT CONTROL PWB
SHEET10
5V 1
EE_CDS 2
GND 3
GND 4
STB5V 5
REMOCON 6
POWERLED(SCL0) 7
ON_TIMER(SDA0) 8
5V
GND
R8759
1k
STB5V
C8753
OPEN
GND

ASS'Y


IC8751
X
1
2
3
4
GND
R8751
X
R8754
X
R8752
X
C8751
X
R8753
X
GND
NOT USE
IC8752
GP1UM281QK
1
2
3
R8756
0
R8755
OPEN
C8752
47 /16
R8758
OPEN
R8757
0
GND
GND


CN300T
QGA1501C2-10V
KEY1
KEY2
MECA_SW
REMOCON
STB5V
GND
ON_TIMER(SDAO)
POWERLED(SCLO)
5V
EE_CDS
MI-COM & DIST MODULE
S8703
QSW0797-001
S8702
QSW0797-001
CH
+
VOL
−
R8701
5.6k
R8702
15k
CN3003
QGB2542K1-08
FRONT SENSOR PWB
SHEET9
S8706
QSW0797-001
S8705
QSW0797-001
MENU
INPUT
R8703
5.6k
R8704
15k
D8701
X
R8711
X
R8713
2.2K
Q8701
UN2212-X
Q8702
UN2212-X
CN300U
QGA1501C2-04V
HP_ L
HP_GND
HP_R
HP_DET
RECEIVER PWB (3/3)
SHEET3
R6417
100
D6413
MA8062/M/-X
HPGND
D6412
MA8062/M/-X
D6411
MA8062/M/-X
C6412
220/10
C6414
.001
C6413
.001
C6411
220/10
R6414
39
R6413
39
R6416
10K
R6415
10K
R6411
39
R6412
39

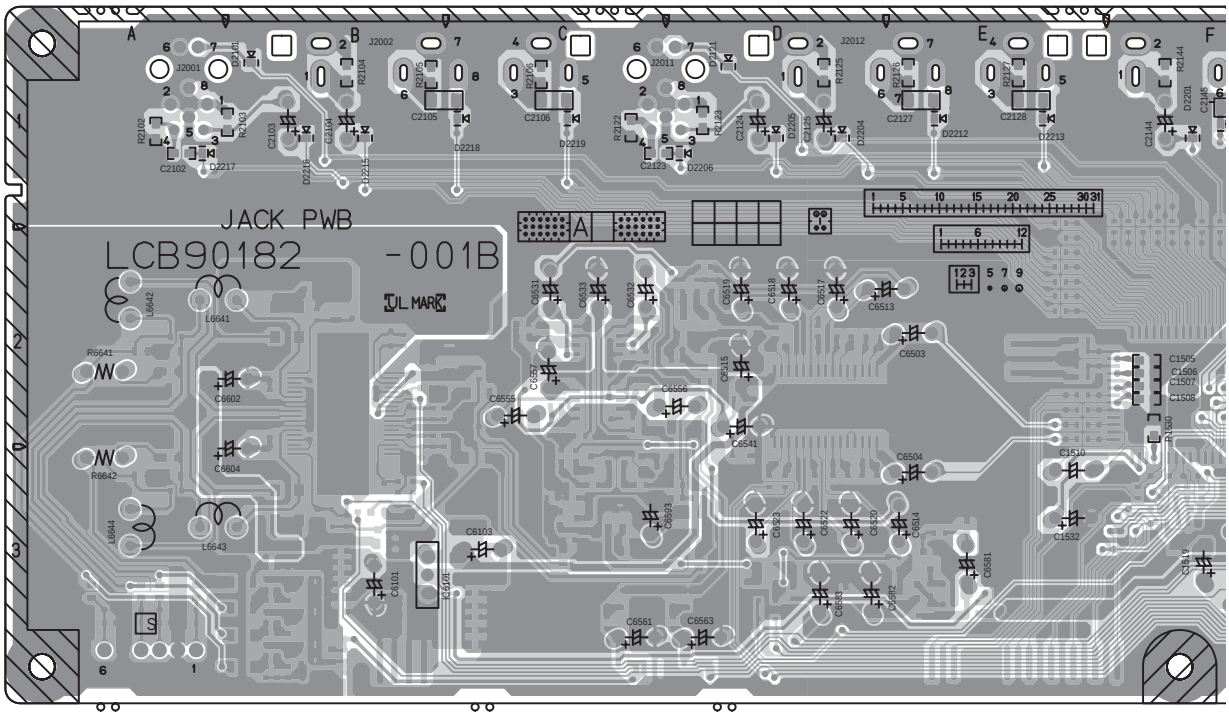
FRONT CONTROL PWB ASS'Y
LCA90154-03D
(SSB-0L386A)



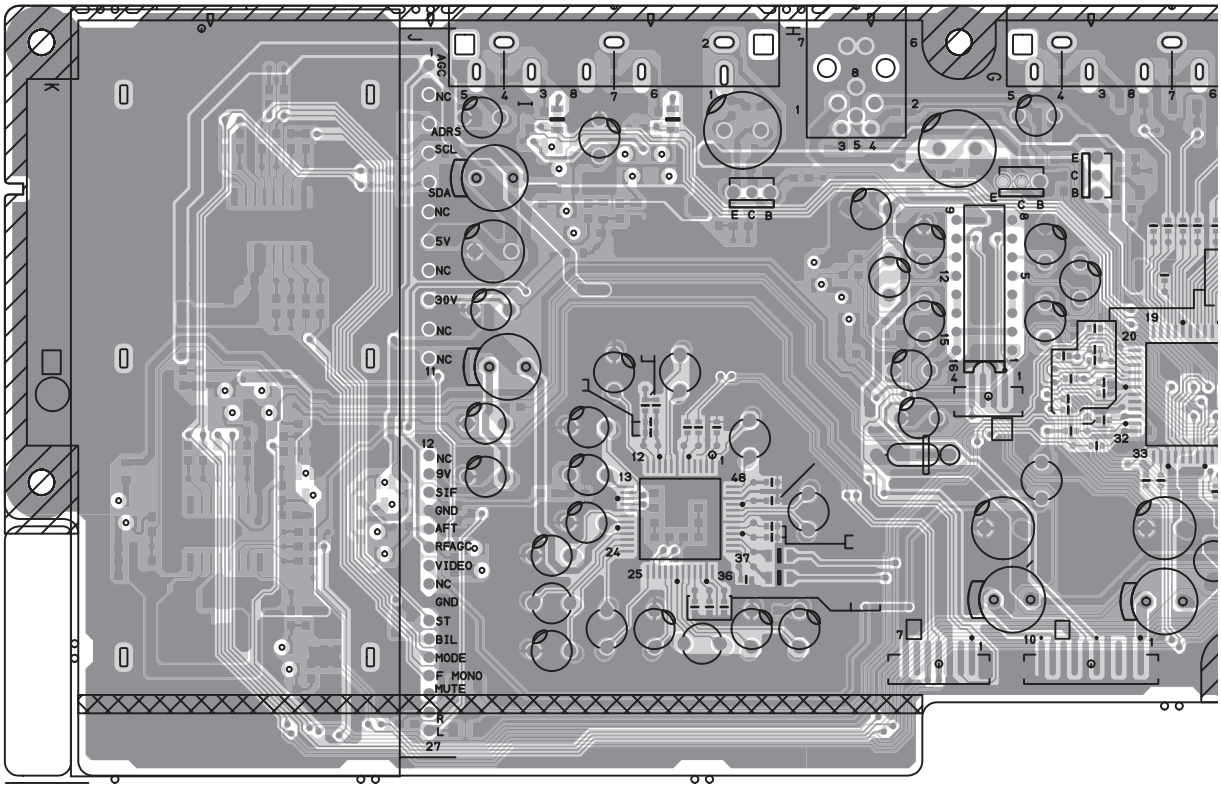
PATTERN DIAGRAMS

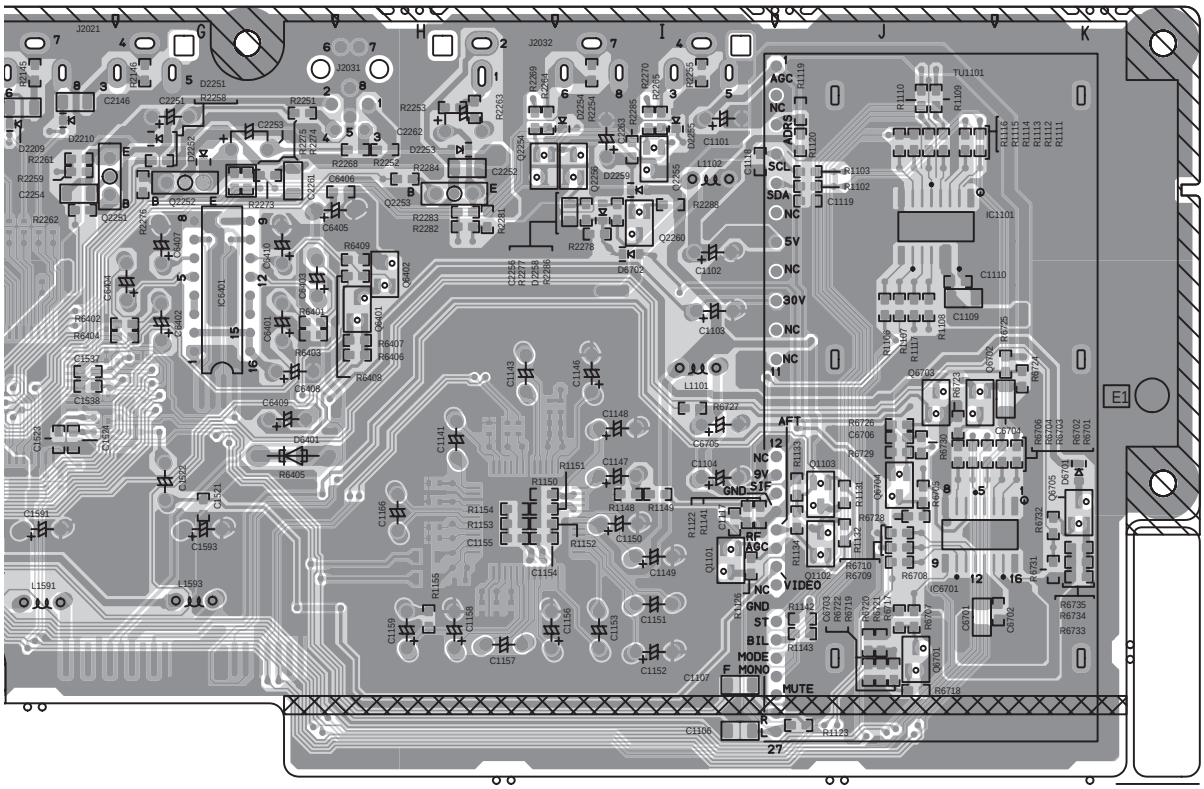
RECEIVER PWB PATTERN [SOLDER SIDE]

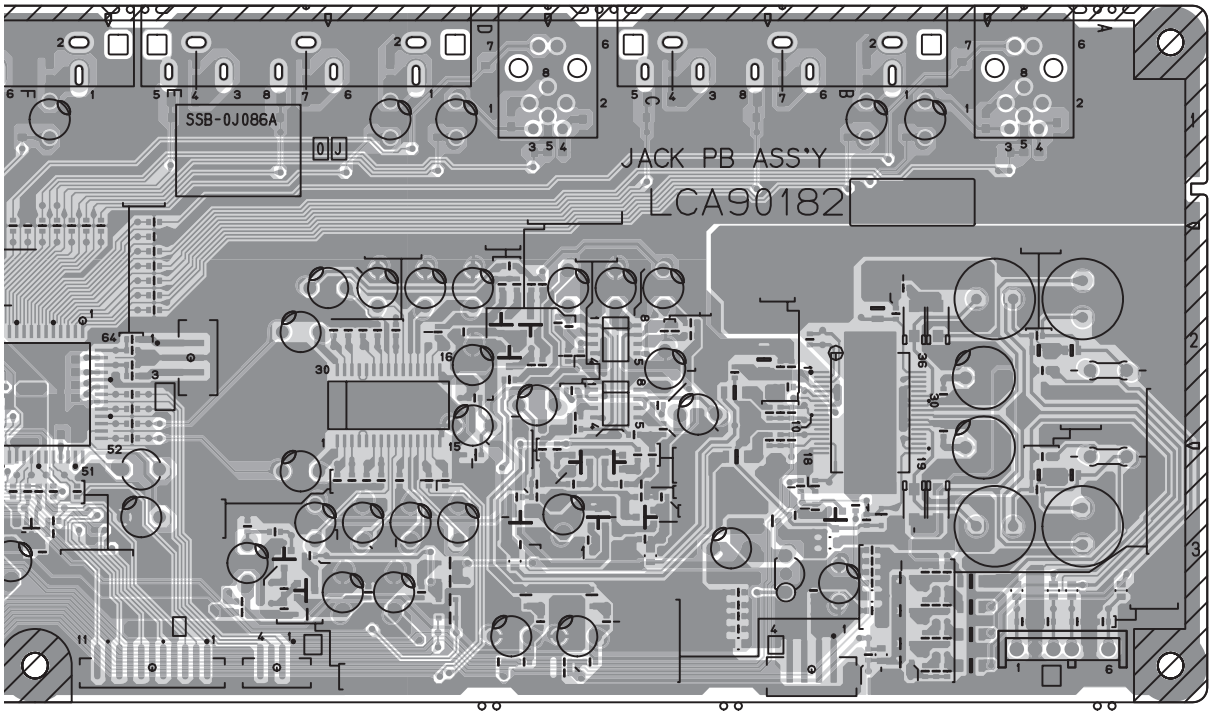
TOP



RECEIVER PWB PATTERN [PARTS SIDE]

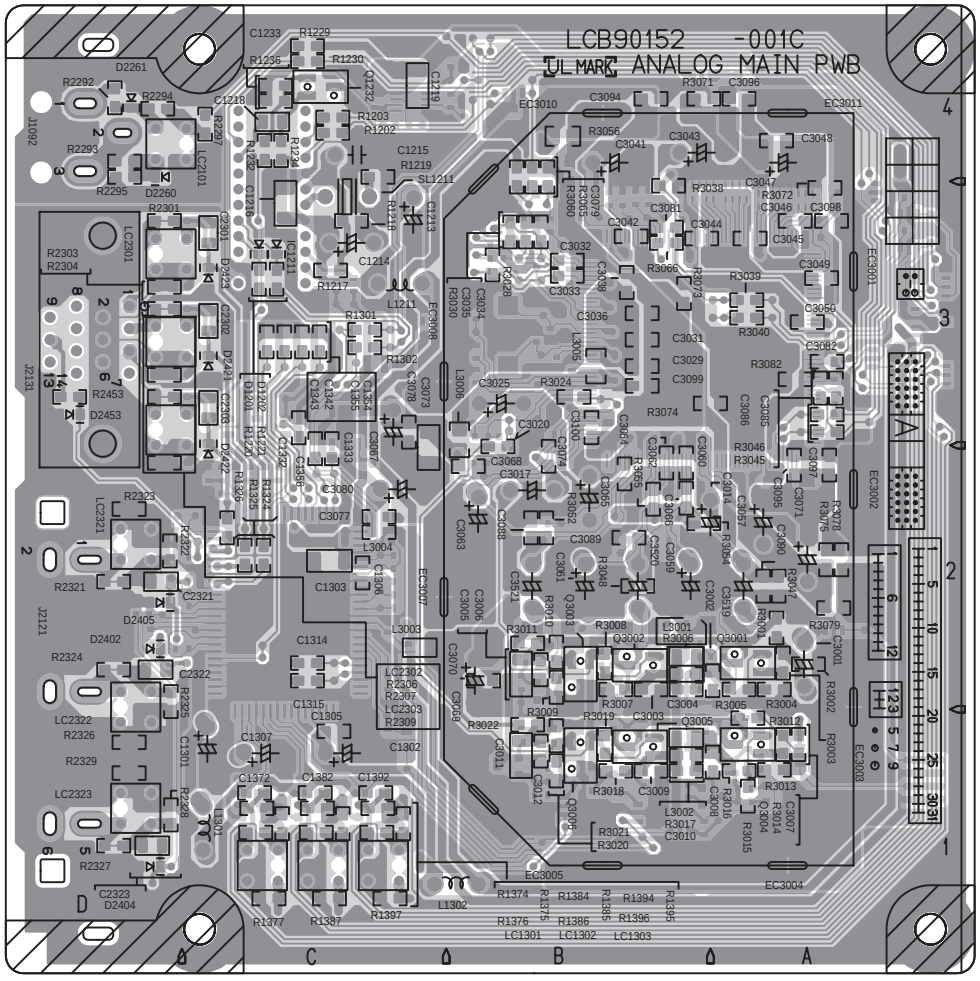



AGC
NC
ADRS
SCL
SDA
NC
5V
NC
30V
NC
NC
AFT
NC
9V
SIF
GND
RF
AGC
NC
VIDEO
NC
GND
ST
BIL
MODE
F MONO
MUTE
R
L
27


SSB-0J086A
JACK PB ASS'Y
LCA90182

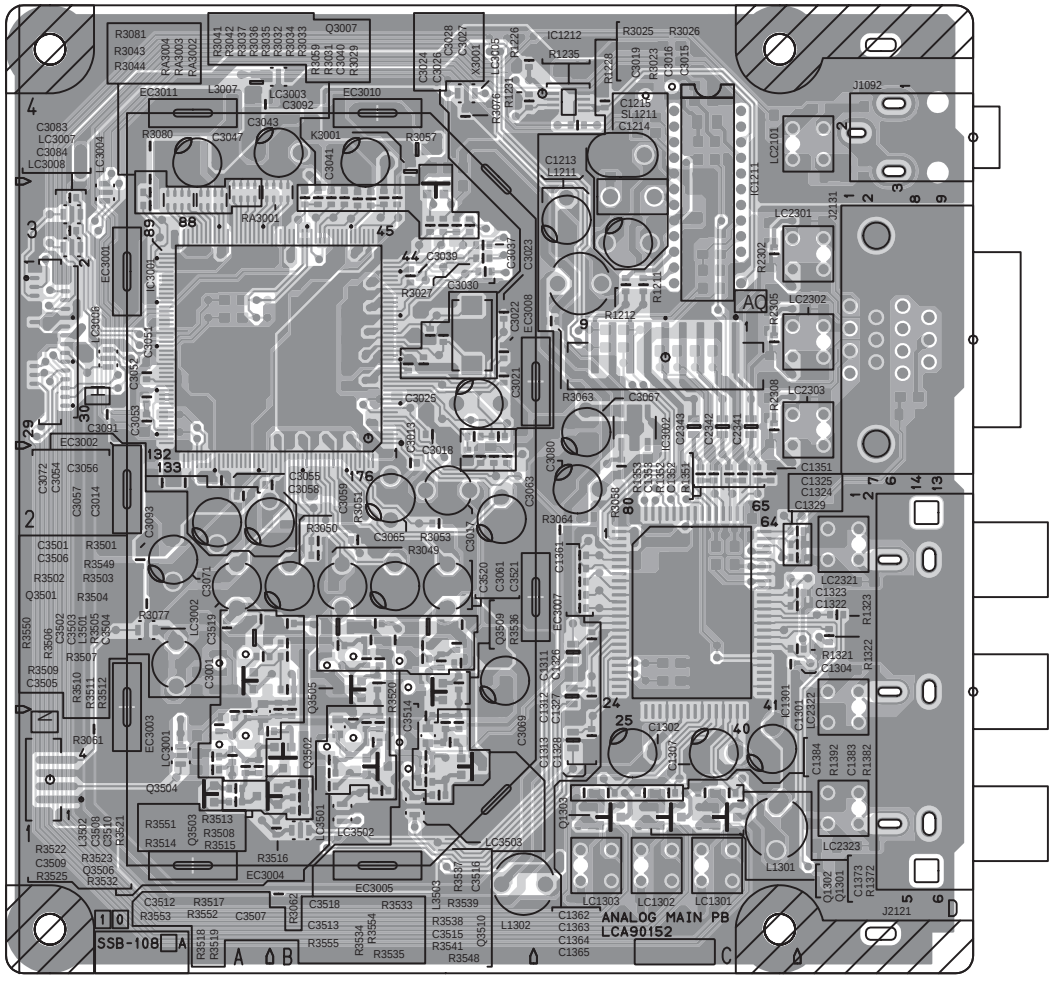
TOP

TOP

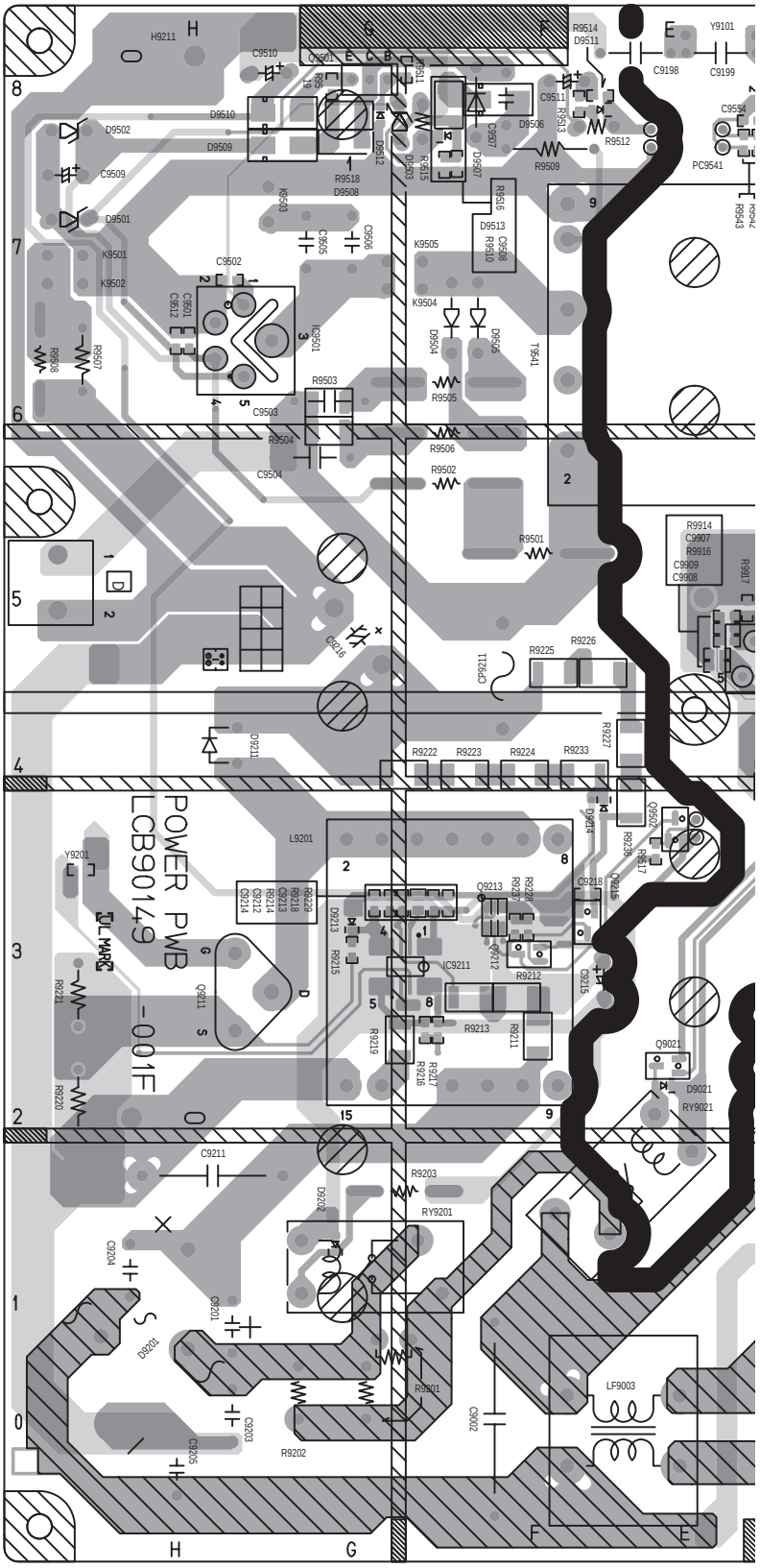


VIDEO PWB PATTERN [PARTS SIDE]

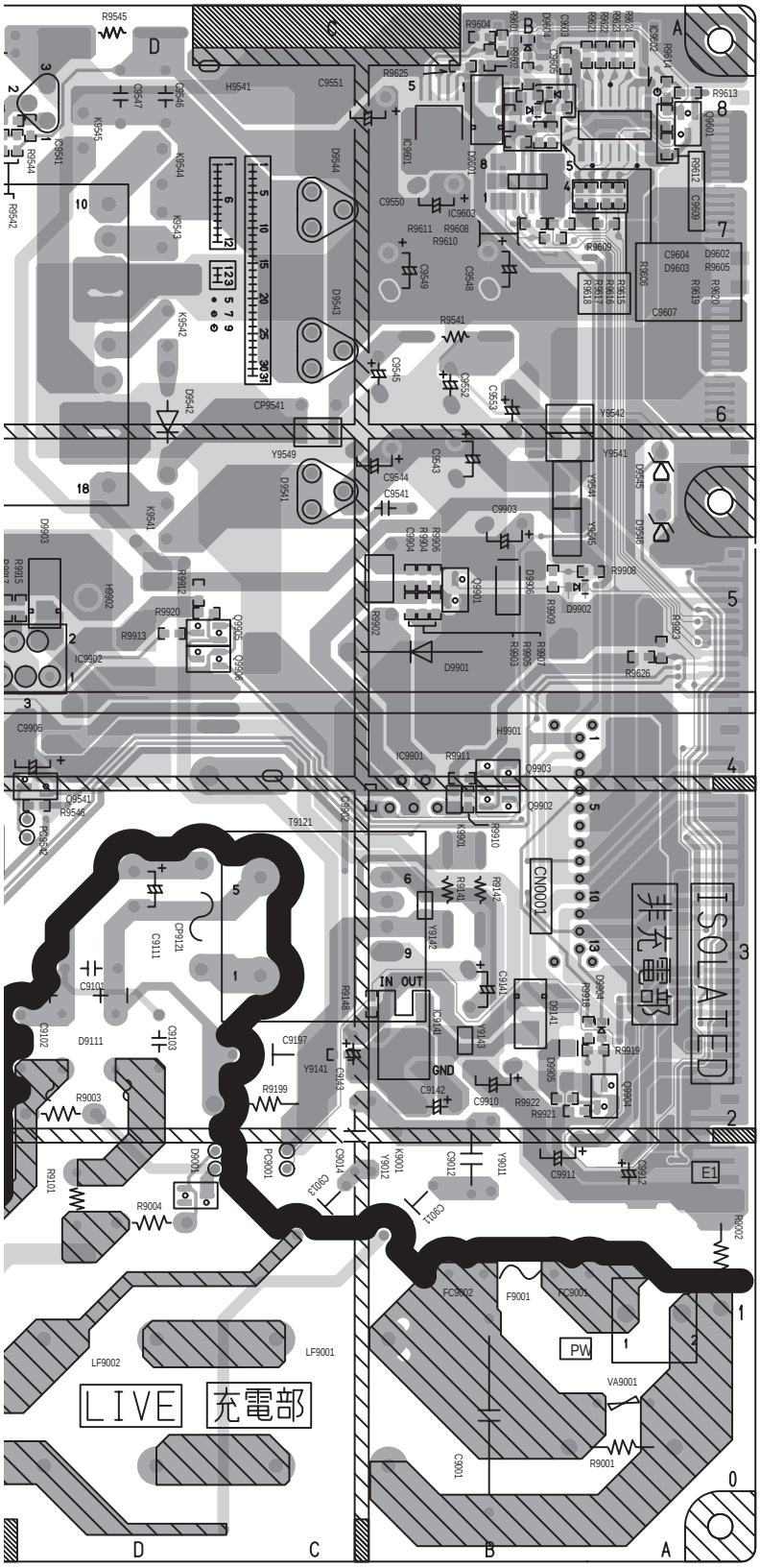
TOP



TC

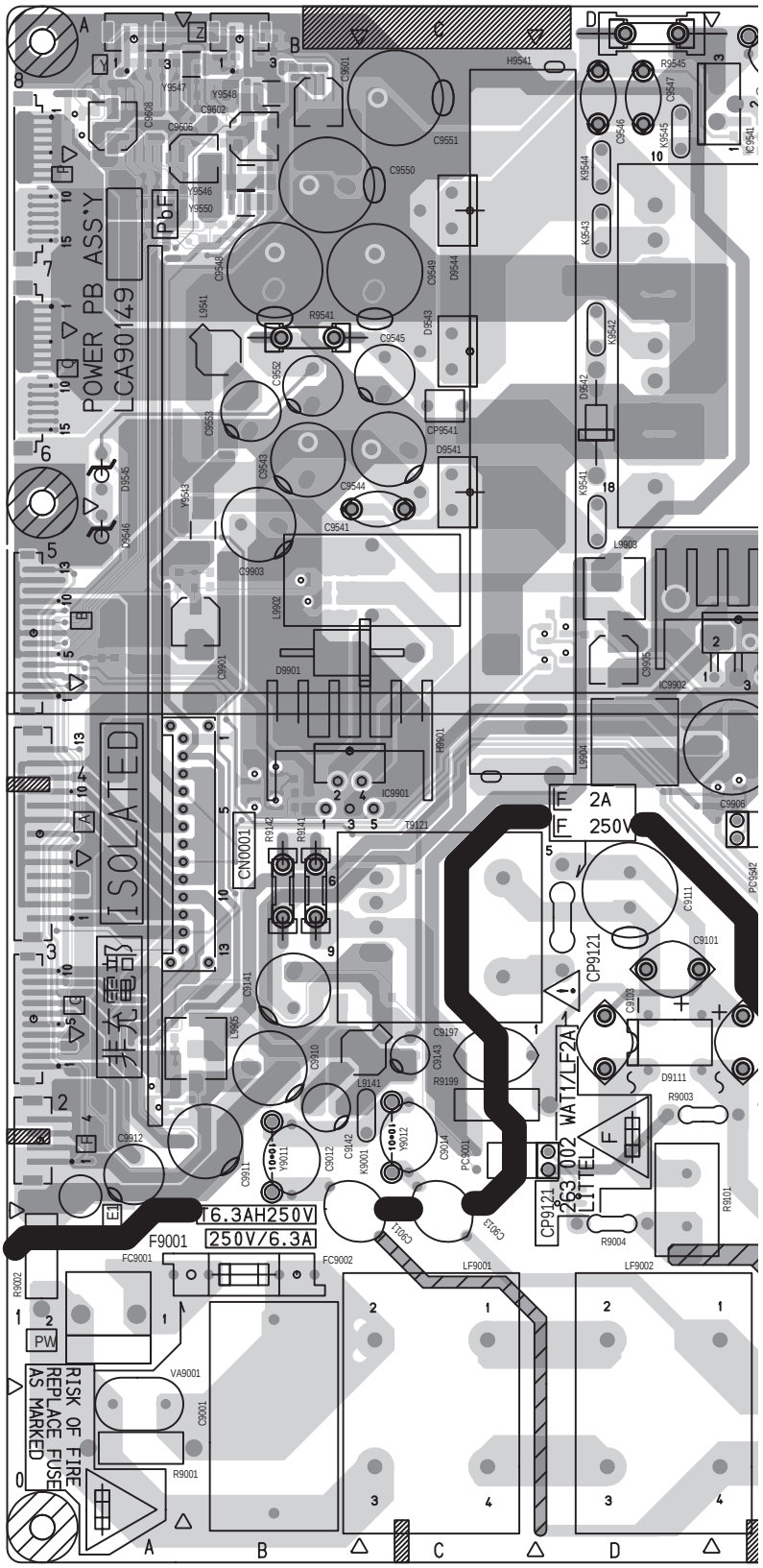


OP

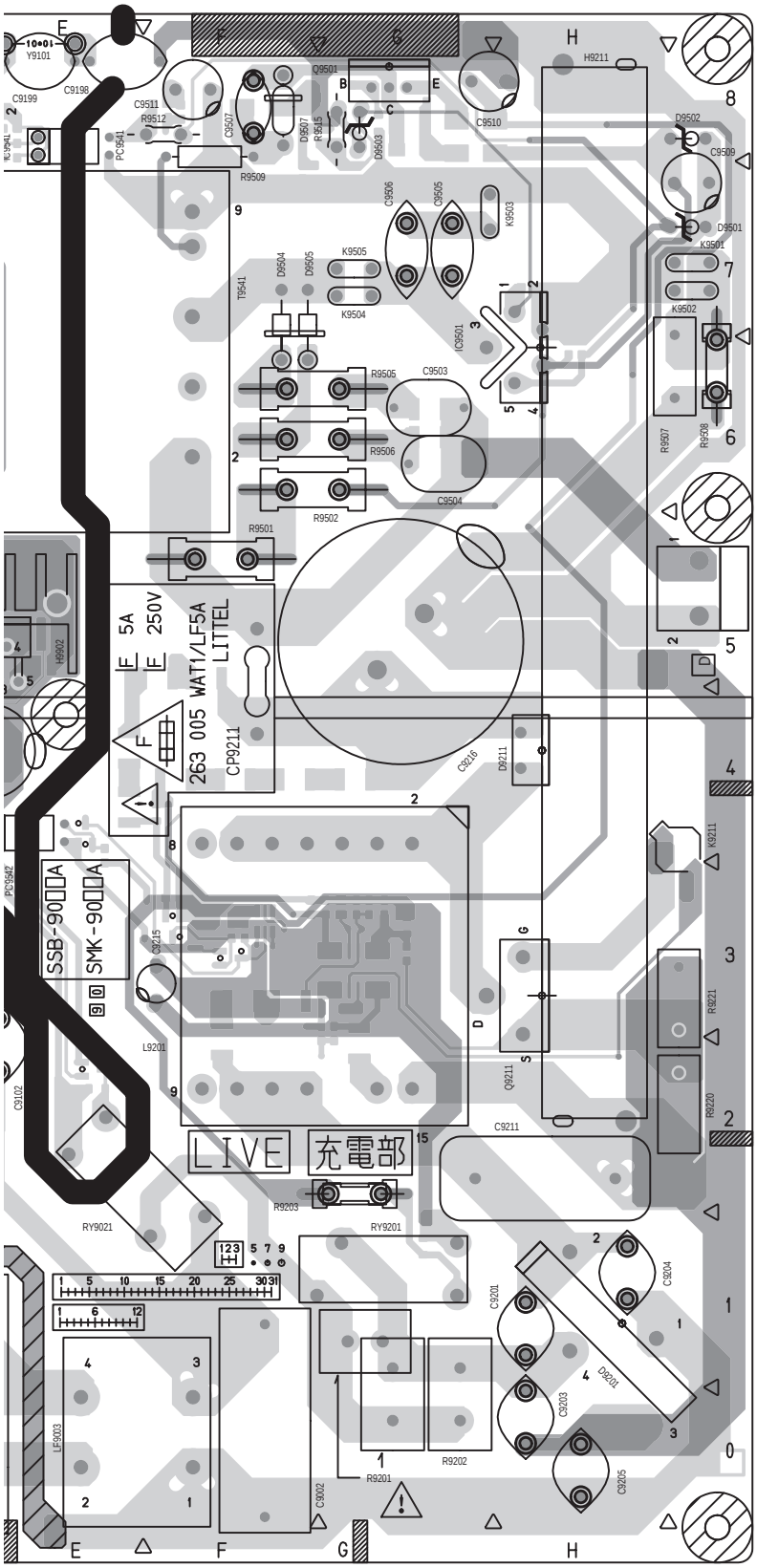


POWER PWB PATTERN [PARTS SIDE]

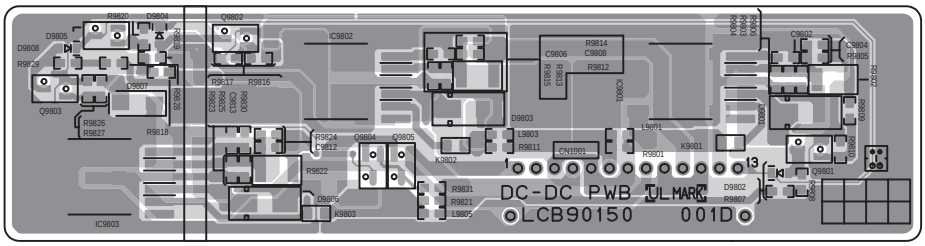
TO



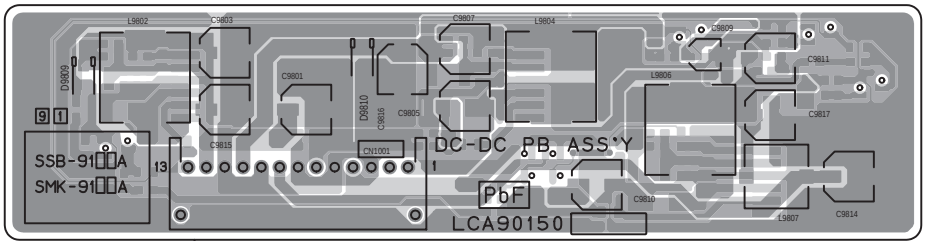
TOP


E
F
G
H
Y9101
C9199
C9198
C9511
R9512
PC9541
C9507
Q9501
D9507
R9515
D9508
C9510
H9211
D9502
C9509
R9509
C9506
C9505
K9503
D9501
K9501
K9505
D9504
D9505
T9541
K9504
K9502
C9501
R9505
C9503
R9506
R9507
R9508
C9504
R9502
R9501
H9902
5A 250V
WAT1/LF5A
LITTEL
263 005
CP9211
C9216
D9211
K9211
SSB-90□□A
SMK-90□□A
PC9502
C9215
L9201
C9102
R9221
R9220
Q9211
C9211
LIVE
充電部
R9203
RY9021
RY9201
C9204
C9201
D9201
C9203
C9205
R9202
R9201
C9002
LF9003

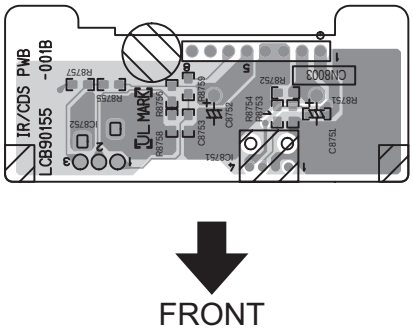
REGULATOR PWB PATTERN [SOLDER SIDE]



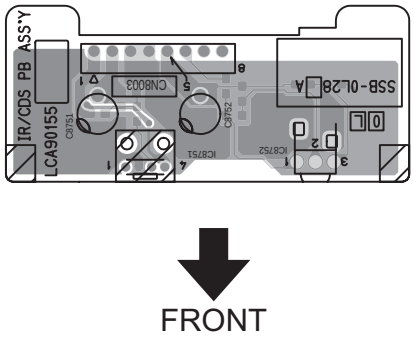
REGULATOR PWB PATTERN [PARTS SIDE]



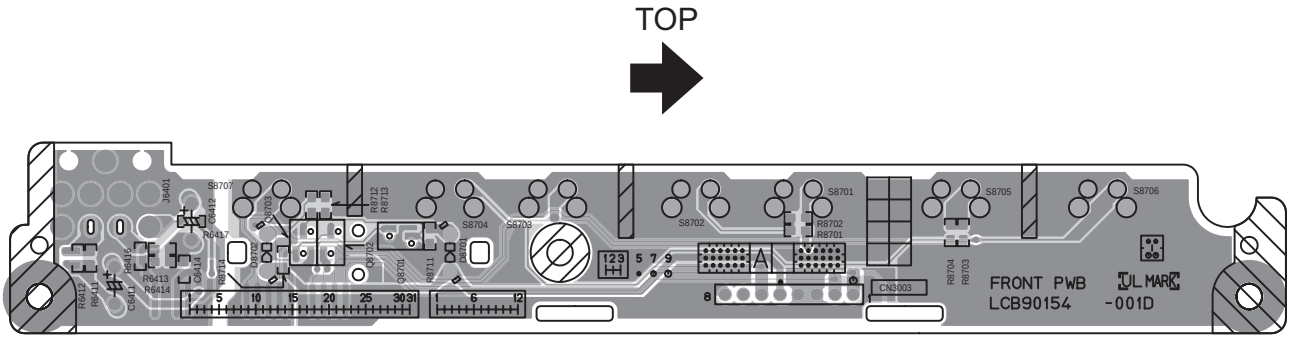
FRONT SENSOR PWB PATTERN [SOLDER SIDE]



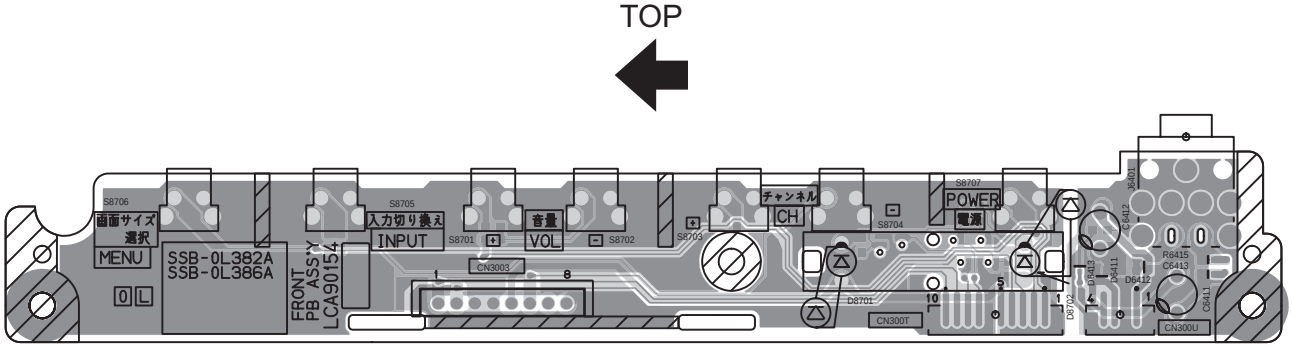
FRONT SENSOR PWB PATTERN [PARTS SIDE]



FRONT CONTROL PWB PATTERN [SOLDER SIDE]



FRONT CONTROL PWB PATTERN [PARTS SIDE]



VOLTAGE CHARTS

<RECEIVER>

MODE PIN NO.	DC (V)
IC1101	
1	0
2	4.2
3	3.0
4	0.5
5	0.5
6	0.5
7	0.5
8	0
9	0.5
10	0
11	0.5
12	0.5
13	5.2
14	5.2
15	0
16	0
IC1102	
1	4.2
2	4.2
3	4.1
4	4.1
5	2.9
6	4.2
7	0
8	4.1
9	0
10	4.1
11	4.0
12	5.3
13	4.1
14	1.3
15	1.3
16	0
17	0
18	3.1
19	9.0
20	0
21	4.1
22	4.1
23	4.2
24	3.9
25	4.1
26	4.0
27	4.1
28	1.7
29	4.1
30	4.1
31	1.7
32	4.0
33	4.1
34	4.1
35	0
36	4.1
37	4.1
38	4.1
39	4.1
40	4.1
41	4.1
42	0
43	4.1
44	0
45	4.2
46	0
47	4.2
48	4.1
IC1501	
1	4.3
2	4.5
3	4.0
4	4.4
5	4.4
6	0
7	5.0
8	4.0
9	4.5
10	3.9
11	4.5
12	4.4
13	0
14	5.0
15	3.9
16	4.5
17	3.9
18	4.5
19	4.4
20	0.1
21	5.1
22	3.9
23	4.5
24	4.0
25	4.5
26	4.4
27	0
28	5.0
29	4.5
30	5.5
31	4.4

MODE PIN NO.	DC (V)
32	0
33	4.3
34	2.9
35	0
36	0
37	4.4
38	4.5
39	3.7
40	4.5
41	3.7
42	9.0
43	4.5
44	4.3
45	4.5
46	3.7
47	4.4
48	0
49	3.9
50	4.5
51	4.4
52	4.5
53	3.7
54	4.5
55	3.7
56	3.2
57	0
58	4.3
59	4.5
60	3.9
61	4.5
62	4.5
63	3.7
64	4.4
IC6101	
1	11.9
2	0.0
3	13.9
IC6401	
1	0.0
2	2.0
3	1.9
4	1.9
5	2.0
6	3.8
7	1.9
8	0.0
9	4.5
10	1.9
11	0.0
12	1.9
13	2.0
14	1.9
15	1.9
16	1.9
IC6501	
1	5.9
2	6.0
3	6.0
4	5.9
5	5.9
6	6.0
7	5.9
8	6.0
9	0.9
10	6.0
11	3.0
12	2.9
13	4.1
14	4.2
15	0.0
16	11.9
17	4.5
18	0.0
19	5.3
20	5.2
21	5.9
22	6.0
23	6.0
24	6.0
25	6.0
26	6.0
27	6.0
28	6.0
29	6.0
30	6.0
IC6531	
1	6.2
2	6.3
3	6.2
4	0.0
5	6.2
6	6.2
7	6.3
8	11.9
IC6551	
1	6.3
2	6.3
3	6.2

MODE PIN NO.	DC (V)
4	0.0
5	6.2
6	0.0
7	6.3
8	11.9
IC6641	
1	5.1
2	0.0
3	6.9
4	5.1
5	0.0
6	1.0
7	4.3
8	0.0
9	5.1
10	2.4
11	2.3
12	0.0
13	0.0
14	2.4
15	2.4
16	2.4
17	0.0
18	0.0
19	0.0
20	0.0
21	0.0
22	0.0
23	0.0
24	7.0
25	13.9
26	13.9
27	13.9
28	6.9
29	9.6
30	13.9
31	6.9
32	0.0
33	13.9
34	0.0
35	0.0
36	22.1
IC6701	
1	0.0
2	4.5
3	4.2
4	5.2
5	0.0
6	5.4
7	5.4
8	0.0
9	0.1
10	5.3
11	5.4
12	0.0
13	5.4
14	0.0
15	0.0
16	5.5
TU1101	
1	4.2
2	5.8
3	5.2
4	4.3
5	3.0
6	0
7	5.2
8	0
9	31.9
10	0
11	0
12	0
13	0
14	2.4
15	0
16	4.8
17	4.2
18	2.5
19	0
20	0
21	0
22	0
23	0
24	0
25	0
26	0
27	0
Q1101	
E	0
C	4.2
B	0
Q1102	
E	5.4
C	0
B	4.8
Q1103	
E	4.8
C	9.0

MODE PIN NO.	DC (V)
B	5.4
Q2251	
E	5.1
C	0.0
B	4.9
Q2252	
E	4.4
C	0.0
B	3.8
Q2253	
E	4.5
C	0.0
B	3.8
Q2254	
E	0.0
C	0.0
B	-0.4
Q2255	
E	0.0
C	0.0
B	-0.2
Q2256	
E	0.0
C	-0.2
B	0.0
Q2260	
E	9.0
C	-0.3
B	8.9
Q6401	
E	3.5
C	3.4
B	0.0
Q6402	
E	0.0
C	0.0
B	3.5
Q6504	
E	0.0
C	0.0
B	0.6
Q6505	
E	0.0
C	0.0
B	0.6
Q6506	
E	0.8
C	0.6
B	0.2
Q6551	
E	0.0
C	0.0
B	0.5
Q6552	
E	00
C	0.0
B	0.5
Q6581	
E	0.0
C	11.8
B	0.0
Q6582	
E	11.4
C	-0.4
B	11.8
Q6591	
E	0.0
C	0.0
B	-0.7
Q6592	
E	0.0
C	0.0
B	-0.9
Q6593	
E	0.0
C	-0.8
B	0.0
Q6601	
E	0.0
C	0.0
B	0.6
Q6702	
E	5.4
C	5.4
B	4.7
Q6703	
E	0.0
C	0.0
B	0.6
Q6704	
E	0.0
C	5.4
B	0.0
Q6705	
E	5.4
C	0.0
B	5.3
CN000K	

MODE PIN NO.	DC (V)
1	4.8
2	0
3	0
4	2.9
5	4.3
6	3.3
7	0
CN000J	
1	4.4
2	0
3	4.3
4	0
5	0
6	0
7	0
8	0
9	0
10	0
11	0

<REGURATOR>

MODE PIN NO.	DC (V)
IC9801	
1	21.2
2	9.2
3	0.0
4	9.0
5	2.5
IC9802	
1	21.2
2	5.4
3	0.0
4	5.0
5	2.5
IC9803	
1	15.7
2	5.2
3	0.0
4	4.9
5	2.1
Q9801	
E	0.0
C	0.0
B	0.6
Q9802	
E	0.0
C	0.0
B	0.0
Q9803	
E	0.0
C	0.0
B	0.6
Q9804	
E	0.0
C	0.0
B	3.2
Q9805	
E	0.0
C	2.1
B	0.0

<FRONT SENSOR>

MODE PIN NO.	DC (V)
IC8752	
1	3.5
2	5.4
3	0.0

<FRONT CONTROL>

MODE PIN NO.	DC (V)
Q8701	
E	0
C	2.4
B	0
Q8702	
E	0.0
C	0.7
B	0
Q8703	
E	0
C	0
B	0.7
CN300T	
1	3.3
2	3.3
3	0
4	0
5	0
6	0
7	0
8	0
9	0
10	0

<VIDEO>

MODE PIN NO.	DC (V)
IC3001	
1	0.0
2	3.3
3	3.3
4	0.0
5	1.5
6	2.2
7	0.8
8	0.0
9	0.5
10	0.0
11	0.0
12	2.5
13	1.7
14	0.7
15	0.0
16	0.0
17	3.3
18	3.3
19	0.0
20	0.0
21	0.1
22	0.0
23	3.3
24	1.6
25	0.0
26	1.7
27	3.3
28	0.0
29	1.5
30	0.0
31	1.0
32	3.3
33	0.1
34	3.3
35	0.7
36	0.0
37	1.0
38	3.3
39	0.0
40	3.3
41	1.0
42	0.3
43	0.0
44	0.0
45	0.0
46	0.0
47	3.2
48	0.0
49	0.0
50	0.0
51	0.0
52	0.0
53	0.0
54	0.0
55	0.0
56	0.0
57	0.0
58	0.0
59	3.2
60	3.2
61	2.6
62	3.2
63	0.0
64	0.0
65	0.0
66	1.3
67	0.0
68	0.0
69	0.0
70	0.0
71	0.0
72	0.0
73	0.0
74	0.0
75	0.0
76	0.0
77	0.0
78	3.2
79	0.0
80	0.0
81	0.0
82	0.0
83	0.0
84	0.0
85	0.0
86	0.0
87	0.0
88	0.0
89	0.0
90	0.0
91	0.0
92	0.0
93	0.0
94	0.0
95	0.0
96	0.0
97	0.0

MODE PIN NO.	DC (V)
98	0.0
99	3.2
100	0.0
101	0.0
102	0.0
103	0.0
104	0.0
105	0.0
106	0.0
107	0.0
108	0.0
109	0.0
110	0.0
111	0.0
112	0.0
113	0.0
114	3.2
115	0.0
116	0.0
117	0.0
118	0.0
119	3.2
120	0.0
121	0.0
122	0.0
123	0.0
124	0.0
125	0.0
126	0.0
127	3.2
128	1.7
129	0.0
130	3.2
131	3.2
132	0.0
133	0.0
134	0.0
135	3.2
136	0.0
137	0.0
138	1.5
139	1.5
140	0.0
141	3.2
142	0.0
143	0.0
144	0.0
145	0.0
146	0.0
147	0.0
148	0.0
149	0.0
150	0.0
151	0.0
152	0.0
153	3.2
154	0.0
155	3.2
156	0.0
157	0.0
158	1.3
159	0.0
160	1.3
161	3.3
162	0.0
163	0.6
164	1.3
165	2.5
166	1.3
167	3.3
168	0.0
169	0.6
170	1.3
171	2.4
172	1.3
173	3.3
174	0.0
175	0.0
176	0.0
IC3002	
1	4.9
2	0.0
3	0.0
4	4.9
5	3.4
IC1211	
1	0.0
2	0.0
3	0.3
4	0.0
5	0.0
6	6.2
7	4.9
8	8.9
9	1.2
10	0.0
11	0.0
12	0.0

MODE PIN NO.	DC (V)
13	0.6
14	0.0
15	0.0
16	4.2
17	4.1
18	4.4
19	2.2
20	1.3
21	2.2
22	0.3
23	0.0
24	0.0
IC1212	
1	3.2
2	3.2
3	0.2
4	0.0
5	0.5
6	0.5
7	3.2
8	3.2
IC1301	
1	5.0
2	4.1
3	4.4
4	0.0
5	4.6
6	0.0
7	4.7
8	0.0
9	4.6
10	0.0
11	4.4
12	4.4
13	0.0
14	4.6
15	0.0
16	4.6
17	0.0
18	4.6
19	0.0
20	4.4
21	4.4
22	0.0
23	4.5
24	4.4
25	0.0
26	4.5
27	4.5
28	0.0
29	0.0
30	4.5
31	8.9
32	4.5
33	4.5
34	0.0
35	4.4
36	4.4
37	0.0
38	4.4
39	4.4
40	4.4
41	4.4
42	0.0
43	4.3
44	4.3
45	0.0
46	4.3
47	8.9
48	4.7
49	0.0
50	4.6
51	0.0
52	4.6
53	0.0
54	4.5
55	4.5
56	0.0
57	4.6
58	0.0
59	4.6
60	0.0
61	0.0
62	0.5
63	4.4
64	4.4
65	0.0
66	4.6
67	4.6
68	4.6
69	0.0
70	4.4
71	4.4
72	0.0
73	5.0
74	4.6
75	4.6
76	4.6

MODE PIN NO.	DC (V)
77	0.0
78	4.5
79	4.5
80	0.0
Q3001	
E	5.5
C	8.9
B	6.4
Q3002	
E	4.0
C	8.9
B	4.6
Q3003	
E	4.6
C	0.0
B	4.0
Q3004	
E	5.5
C	8.9
B	6.1
Q3005	
E	4.0
C	8.9
B	4.6
Q3006	
E	4.6
C	0.0
B	4.0
Q3007	
E	0.9
C	0.0
B	0.3
Q3501	
E	5.2
C	0.0
B	4.5
Q3502	
E	4.5
C	8.9
B	5.2
Q3505	
E	5.1
C	0.0
B	4.5
Q3506	
E	4.5
C	8.9
B	5.1
Q3509	
E	5.1
C	0.0
B	4.5
Q3510	
E	4.5
C	8.9
B	5.1
Q1232	
E	2.8
C	0.0
B	2.2
Q1301	
E	3.6
C	8.9
B	4.3
Q1302	
E	3.7
C	8.9
B	4.4
Q1303	
E	3.6
C	8.9
B	4.3
CN100H	
1	0
2	0
3	0.3
4	2.9
5	0
6	2.7
7	3.6
8	0
9	3.7
10	3.2
11	5.1
12	0
13	3.3
14	5.1
15	9.0
16	8.9
17	5.1
18	3.3
19	0
20	5.1
21	3.2
22	3.7
23	0
24	3.7
25	2.7

MODE PIN NO.	DC (V)
26	0.2
27	2.9
28	0.3
29	0
30	0
CN10AQ	
1	1.1
2	0
3	1.2
4	0
5	1.4
6	0
7	0
8	0
9	0

<POWER>

MODE PIN NO.	DC (V)
IC9211	
1	-42.5
2	-41.5
3	-43.0
4	-42.9
5	-42.0
6	-42.7
7	-30.8
8	-24.1
IC9501	
1	-42.7
2	-43.3
3	340
4	-24.0
5	-40.5
IC9541	
1	15.0
2	14.4
3	0.0
IC9901	
1	15.6
2	3.6
3	0.0
4	3.3
5	2.4
IC9902	
1	21.2
2	13.9
3	0.0
4	1.3
5	6.7
Q9021	
E	0.0
C	0.3
B	3.2
Q9211	
S	-43.9
D	45.6
G	-30.9
Q9212	
E	0.0
C	-28.4
B	-43.5
Q9213	
1	-44.0
2	-44.0
3	-24.0
4	-24.0
5	-28.4
6	-44.0
Q9215	
E	-42.1
C	-42.0
B	-41.5
Q9502	
E	-44.2
C	-28.6
B	-44.2
Q9541	
E	0.0
C	0.0
B	3.2
Q9901	
E	0
C	0
B	0.6
Q9902	
E	0.0
C	2.4
B	0.0
Q9903	
E	0.0
C	0.0
B	3.2
Q9904	
E	0.0
C	0.0
B	0.7
Q9905	

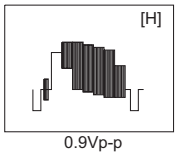
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E	0.0
C	6.7
B	0.0
Q9906	
E	0.0
C	0.0
B	5.1
CN000A	
1	0
2	0
3	3.3
4	3.3
5	0
6	0
7	5.1
8	0
9	5.2
10	0
11	5.1
12	0
13	2.5
CN000B	
1	3.3
2	0
3	3.3
4	3.3
5	0
6	4.3
7	0
8	3.0
9	32.3
10	0
11	20.8
12	0
13	13.7

WAVE FORMS

－RECIEVER PWB－

[SHEET1]

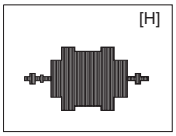
TU1101-18



0.9Vp-p

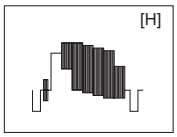
[SHEET2]

IC1501-5



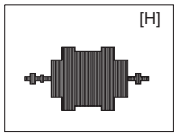
0.7Vp-p

IC1501-30



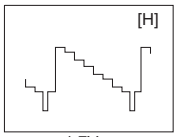
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IC1501-37



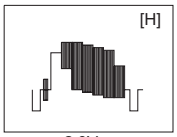
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IC1501-39



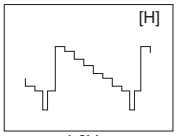
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IC1501-41



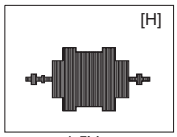
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IC1501-44



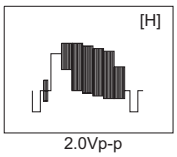
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IC1501-47



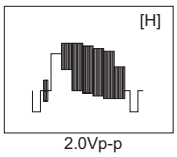
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IC1501-49



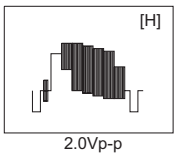
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IC1501-53



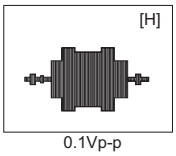
2.0Vp-p

IC1501-56



2.0Vp-p

IC1501-58

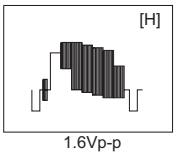


0.1Vp-p

－VIDEO PWB－

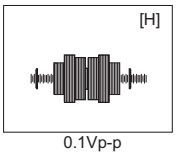
[SHEET4]

IC3001-7



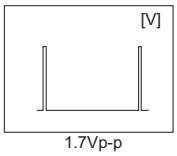
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IC3001-13



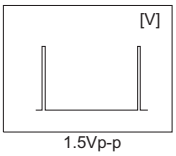
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IC3001-42



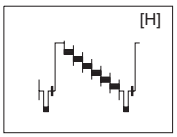
1.7Vp-p

IC3001-136



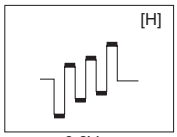
1.5Vp-p

IC3001-157



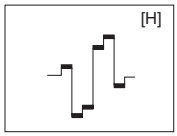
0.8Vp-p

IC3001-163



0.6Vp-p

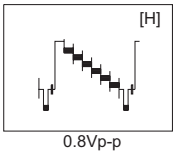
IC3001-169



0.6Vp-p

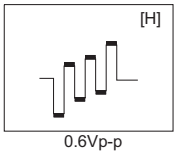
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IC1301-14



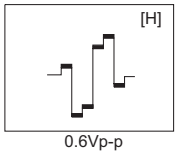
0.8Vp-p

IC1301-16



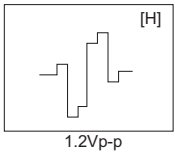
0.6Vp-p

IC1301-18



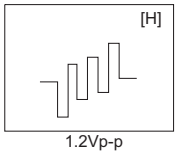
0.6Vp-p

IC1301-35



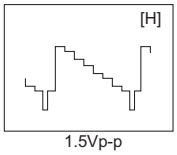
1.2Vp-p

IC1301-36



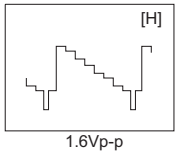
1.2Vp-p

IC1301-38



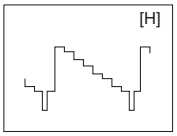
1.5Vp-p

IC1301-46



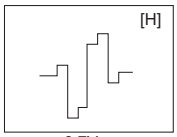
1.6Vp-p

IC1301-48



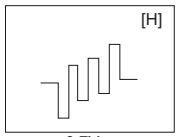
0.8Vp-p

IC1301-50



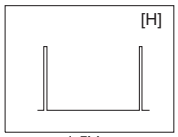
0.7Vp-p

IC1301-52



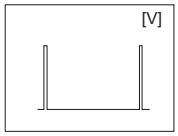
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IC1211-3



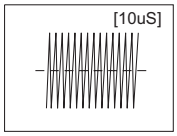
1.5Vp-p

IC1211-4



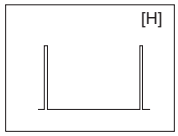
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IC1211-7



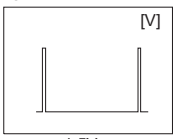
0.2Vp-p

IC1211-13



1.5Vp-p

IC1211-22



1.5Vp-p

CHANNEL CHART (US)

MODE		BAND	CHANNEL		TUNER BAND
TV	CATV		REAL	DISP.	
○	○	VL	02 03 04 05 06		I
		VH	07 08 09 10 11 12 13		II
×	○	MID	A B	14 15	I
			C D E F G H I	16 17 18 19 20 21 22	II
		SUPER	J K L M N O P Q R S T U V W	23 24 25 26 27 28 29 30 31 32 33 34 35 36	
		HYPER	W+1 W+2 W+3 W+4 W+5 W+6 W+7 W+8 W+9 W+10 W+11	37 38 39 40 41 42 43 44 45 46 47	
			W+12 W+13 W+14 W+15 W+16 W+17 W+18 W+19 W+20 W+21 W+22 W+23 W+24 W+25 W+26 W+27 W+28	48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64	IV
		ULTRA	W+29 W+30 W+31 W+32 W+33 W+34	65 66 67 68 69 70	

MODE		BAND	CHANNEL		TUNER BAND
TV	CATV		REAL	DISP.	
×	○	ULTRA	W+35 W+36 W+37 W+38 W+39 W+40 W+41 W+42 W+43 W+44 W+45 W+46 W+47 W+48 W+49 W+50 W+51 W+52 W+53 W+54 W+55 W+56 W+57 W+58 W+59 W+60 W+61 W+62 W+63 W+64 W+65 W+66 W+67 W+68 W+69 W+70 W+71 W+72 W+73 W+74 W+75 W+76 W+77 W+78 W+79 W+80 W+81 W+82 W+83 W+84	71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125	IV
		SUB MID	A-8 A-4 A-3 A-2 A-1	01 96 97 98 99	I
○	×	UHF	14 ≀ 69		IV

TOTAL 180CH
{ VHF 124CH
{ UHF 56CH

NOTE:
TO RECEIVE THE SUBSCRIPTION OR PREMIUM PROGRAMMING FROM CERTAIN CABLE COMPANIES.
SPECIAL ADAPTERS MAY BE REQUIRED.

CHANNEL CHART (CA)

MODE		BAND	CHANNEL		TUNER BAND
TV	CATV		REAL	DISP.	
○	○	VL	02 03 04 05 06		I
		VH	07 08 09 10 11 12 13		II
×	○	MID	A B C D E F G H I	14 15 16 17 18 19 20 21 22	
		SUPER	J K L M N O	23 24 25 26 27 28	
		SUPER	P Q R S T U V W	29 30 31 32 33 34 35 36	III
		HYPER	W+1 W+2 W+3 W+4 W+5 W+6 W+7 W+8 W+9 W+10 W+11 W+12 W+13 W+14 W+15 W+16 W+17 W+18 W+19 W+20 W+21 W+22 W+23 W+24 W+25 W+26 W+27 W+28	37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64	
		ULTRA	W+29	65	
		ULTRA	W+30 W+31 W+32 W+33 W+34	66 67 68 69 70	IV

MODE		BAND	CHANNEL		TUNER BAND
TV	CATV		REAL	DISP.	
×	○	ULTRA	W+35 W+36 W+37 W+38 W+39 W+40 W+41 W+42 W+43 W+44 W+45 W+46 W+47 W+48 W+49 W+50 W+51 W+52 W+53 W+54 W+55 W+56 W+57 W+58 W+59 W+60 W+61 W+62 W+63 W+64 W+65 W+66 W+67 W+68 W+69 W+70 W+71 W+72 W+73 W+74 W+75 W+76 W+77 W+78 W+79 W+80 W+81 W+82 W+83 W+84	71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125	IV
		SUB MID	A-8 A-4	01 96	I
		SUB MID	A-3 A-2 A-1	97 98 99	II
○	×	UHF	14 ~ 69		IV

TOTAL 180CH
{ VHF 124CH
{ UHF 56CH

NOTE:
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